

CBIT - Library & Information Centre

List of Springer E-Books Subscribed for the 2013 in Engineering

S.No.	Book Title	Author	Subject Classification
1	Advances in Aerospace Guidance, Navigation and Control	Florian Holzapfel, Stephan Theil	Aerospace Technology and Astronautics; Control; Appl.Mathematics/Computational Methods of Engineering
2	Introduction to Avionics Systems	R.P.G. Collinson	Aerospace Technology and Astronautics; Electronics and Microelectronics, Instrumentation
3	Operation of a Cryogenic Rocket Engine	Wolfgang Kitsche	Aerospace Technology and Astronautics; Engineering Thermodynamics, Heat and Mass Transfer
4	Advances in Gyroscope Technologies	Mario N. Armenise, Caterina Ciminelli, Francesco Dell'Olio, Vittorio M. N. Passaro	Aerospace Technology and Astronautics; Measurement Science and Instrumentation
5	Humans in Outer Space — Interdisciplinary Perspectives	Ulrike Landfester, Nina-Louisa Remuss, Kai-Uwe Schrogl, Jean-Claude Worms	Aerospace Technology and Astronautics; Political Science, general
6	Stratospheric Flight	Andras Sóbester	Aerospace Technology and Astronautics; Popular Science in Mathematics/Computer Science/Natural Science/Technology; Extraterrestrial Physics, Space Sciences
7	Mercury 13	Martha Ackmann	Aerospace Technology and Astronautics; Popular Science in Mathematics/Computer Science/Natural Science/Technology; Extraterrestrial Physics, Space Sciences
8	Navigation in Space by X-ray Pulsars	Amir Abbas Emadzadeh, Jason Lee Speyer	Aerospace Technology and Astronautics; Signal, Image and Speech Processing; Control
9	ICAF 2011 Structural Integrity: Influence of Efficiency and Green Imperatives	Jerzy Komorowski	Aerospace Technology and Astronautics; Structural Materials; Engineering Design; Engineering Economics, Organization, Logistics, Marketing; Quality Control, Reliability, Safety and Risk; Operating Procedures, Materials Treatment
10	Advanced Aerospace Applications, Volume 1	Tom Proulx	Aerospace Technology and Astronautics; Vibration, Dynamical Systems, Control; Structural Mechanics
11	Linking Models and Experiments, Volume 2	Tom Proulx	Appl.Mathematics/Computational Methods of Engineering; Aerospace Technology and Astronautics; Structural Mechanics
12	Recruitment Learning	Joachim Diederich, Cengiz Günay, James M. Hogan	Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics)
13	Innovations in Agent-Based Complex Automated Negotiations	Takayuki Ito, Minjie Zhang, Valentin Robu, Shaheen Fatima, Tokuro Matsuo, Hirofumi Yamaki	Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics)
14	Advanced Computational Intelligence Paradigms in Healthcare 5	Sheryl Brahnem, Lakhmi C. Jain	Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics)

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15	Recent Developments in the Ordered Weighted Averaging Operators: Theory and Practice	Ronald R. Yager, Janusz Kacprzyk, Gleb Beliakov	Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics)
16	Evolving Fuzzy Systems – Methodologies, Advanced Concepts and Applications	Edwin Lughofer	Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics)
17	Intelligent Computational Optimization in Engineering	Mario Köppen, Gerald Schaefer, Ajith Abraham	Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics)
18	Parallel Genetic Algorithms	Gabriel Luque, Enrique Alba	Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics)
19	Multimedia Analysis, Processing and Communications	Weisi Lin, Dacheng Tao, Janusz Kacprzyk, Zhu Li, Ebroul Izquierdo, Haohong Wang	Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics); Communications Engineering, Networks; Information Systems and Communication Service
20	New Advances in Intelligent Signal Processing	António E. Ruano, Annamária R. Várkonyi-Kóczy	Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics); Signal, Image and Speech Processing
21	Fuzzy Networks for Complex Systems	Alexander Gegov	Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics); Statistical Physics, Dynamical Systems and Complexity
22	Functional Fractional Calculus	Shantanu Das	Appl.Mathematics/Computational Methods of Engineering; Computational Science and Engineering; Complexity
23	Nonsmooth Modeling and Simulation for Switched Circuits	Vincent Acary, Olivier Bonnefon, Bernard Brogliato	Appl.Mathematics/Computational Methods of Engineering; Electronics and Microelectronics, Instrumentation; Simulation and Modeling
24	Geocomputation, Sustainability and Environmental Planning	Beniamino Murgante, Giuseppe Borruso, Alessandra Lapucci	Appl.Mathematics/Computational Methods of Engineering; Landscape/Regional and Urban Planning; Artificial Intelligence (incl. Robotics); Math. Appl. in Environmental Science
25	From Boolean Logic to Switching Circuits and Automata	Radomir S. Stanković, Jaakko Astola	Appl.Mathematics/Computational Methods of Engineering; Mathematical Logic and Foundations; History of Computing; Artificial Intelligence (incl. Robotics); History of Science; Circuits and Systems
26	Optical Measurements, Modeling, and Metrology, Volume 5	Tom Proulx	Appl.Mathematics/Computational Methods of Engineering; Measurement Science and Instrumentation; Characterization and Evaluation of Materials

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S.No.	Book Title	Author	Subject Classification
27	Fractional Calculus for Scientists and Engineers	Manuel Duarte Ortigueira	Appl.Mathematics/Computational Methods of Engineering; Signal,Image and Speech Processing; Mathematics of Computing
28	Nonlinear Dynamics in Human Behavior	Raoul Huys, Viktor K. Jirsa	Appl.Mathematics/Computational Methods of Engineering; Statistical Physics, Dynamical Systems and Complexity; Artificial Intelligence (incl. Robotics); Cognitive Psychology; Human Physiology
29	Modeling Multiphase Materials Processes	Manabu Iguchi, Olusegun J. Ilegbusi	Appl.Mathematics/Computational Methods of Engineering; Surfaces and Interfaces, Thin Films; Engineering Thermodynamics, Heat and Mass Transfer
30	Basics	Franziska Ullmann	Architectural History and Theory
31	Biophilic and Bioclimatic Architecture	Amjad Almusaed	Architectural History and Theory; Sustainable Development; Civil Engineering; Landscape/Regional and Urban Planning
32	Fundamentals of Space Medicine	Gilles Clément	Astronomy, Astrophysics and Cosmology; Aerospace Technology and Astronautics; Life Sciences, general; Medicine/Public Health, general; Social Sciences, general
33	Chassis Handbook	Bernd Heiing, Metin Ersoy	Automotive Engineering
34	The Automotive Body	Lorenzo Morello, Lorenzo Rosti Rossini, Giuseppe Pia, Andrea Tonoli	Automotive Engineering; Aerospace Technology and Astronautics
35	Computational Optimization of Internal Combustion Engines	Yu Shi, Hai-Wen Ge, Rolf D. Reitz	Automotive Engineering; Appl.Mathematics/Computational Methods of Engineering; Computational Science and Engineering; Machinery and Machine Elements
36	Flexible Multibody Dynamics	O. A. Bauchau	Automotive Engineering; Continuum Mechanics and Mechanics of Materials; Appl.Mathematics/Computational Methods of Engineering; Computational Intelligence; Theoretical and Applied Mechanics
37	Automotive Mechatronics: Operational and Practical Issues	B. T. Fijalkowski	Automotive Engineering; Control, Robotics, Mechatronics; Machinery and Machine Elements; Electronics and Microelectronics, Instrumentation
38	Automotive Mechatronics: Operational and Practical Issues	B. T. Fijalkowski	Automotive Engineering; Control, Robotics, Mechatronics; Machinery and Machine Elements; Electronics and Microelectronics, Instrumentation

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S.No.	Book Title	Author	Subject Classification
39	The Automotive Body	Lorenzo Morello, Lorenzo Rosti Rossini, Giuseppe Pia, Andrea Tonoli	Automotive Engineering; Engineering Design
40	Sustainable Automotive Technologies 2011	Steve Hung, Aleksandar Subic, Jörg Wellnitz	Automotive Engineering; Industrial and Production Engineering; Structural Materials; Sustainable Development
41	Automotive Transmissions	Harald Naunheimer, Bernd Bertsche, Joachim Ryborz, Wolfgang Novak	Automotive Engineering; Machinery and Machine Elements; Engineering Design
42	Vehicle Power Management	Xi Zhang, Chris Mi	Automotive Engineering; Mechanical Engineering
43	Infrastructure and Safety in a Collaborative World	Evangelos Bekiaris, Marion Wiethoff, Evangelia Gaitanidou	Automotive Engineering; Regional/Spatial Science
44	Hydrogen Fuel Cells for Road Vehicles	Pasquale Corbo, Fortunato Migliardini, Ottorino Veneri	Automotive Engineering; Renewable and Green Energy; Transportation
45	Human Modelling in Assisted Transportation	P. Carlo Cacciabue, Magnus Hjalmdahl, Andreas Luedtke, Costanza Riccioli	Automotive Engineering; Simulation and Modeling; Psychology, general; Artificial Intelligence (incl. Robotics); Aerospace Technology and Astronautics
46	Advanced Microsystems for Automotive Applications 2011	Gereon Meyer, Jürgen Valldorf	Automotive Engineering; User Interfaces and Human Computer Interaction; Control
47	Hydropneumatic Suspension Systems	Wolfgang Bauer	Automotive Engineering; Vibration, Dynamical Systems, Control
48	Modern Construction Envelopes	Andrew Watts	Basics of Construction
49	The Other Architecture	Ralph W. Liebing	Basics of Construction
50	Three Dimensional System Integration	Antonis Papanikolaou, Dimitrios Soudris, Riko Radojic	Basics of Construction; Circuits and Systems
51	Biomimetics in Architecture	Petra Gruber	Basics of Construction; Design, general
52	Future Visions on Biomedicine and Bioinformatics 1	Lodewijk Bos, Denis Carroll, Luis Kun, Andrew Marsh, Laura M. Roa	Biomedical Engineering
53	A Probabilistic Framework for Point-Based Shape Modeling in Medical Image Analysis	Heike Hufnagel	Biomedical Engineering
54	Biomechanics and Mechanobiology of Aneurysms	Tim McGloughlin	Biomedical Engineering; Biomaterials; Human Physiology; Cardiac Surgery; Continuum Mechanics and Mechanics of Materials
55	Active Implants and Scaffolds for Tissue Regeneration	Meital Zilberman	Biomedical Engineering; Biomaterials; Molecular Medicine; Medical Biochemistry; Medicinal Chemistry

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S.No.	Book Title	Author	Subject Classification
56	International Conference on Advancements of Medicine and Health Care through Technology	Simona Vlad, Radu V. Ciupa	Biomedical Engineering; Biophysics and Biological Physics; Biomaterials
57	Computational Biomechanics for Medicine	Adam Wittek, Poul M.F. Nielsen, Karol Miller	Biomedical Engineering; Biophysics and Biological Physics; Biomaterials; Appl.Mathematics/Computational Methods of Engineering; Continuum Mechanics and Mechanics of Materials; Surgery
58	Carbon Nanotubes for Biomedical Applications	Rüdiger Klingeler, Robert B. Sim	Biomedical Engineering; Biophysics and Biological Physics; Biomaterials; Biochemical Engineering; Cell Biology
59	Mechanobiology of Cell-Cell and Cell-Matrix Interactions	A. Wagoner Johnson, Brendan A.C. Harley	Biomedical Engineering; Biophysics and Biological Physics; Cell Biology
60	Introduction to Skin Biothermomechanics and Thermal Pain	Feng Xu, Tianjian Lu	Biomedical Engineering; Biophysics and Biological Physics; Neurology; Engineering Thermodynamics, Heat and Mass Transfer; Transportation
61	Ambulatory Impedance Cardiography	Gerard Cybulski	Biomedical Engineering; Cardiology; Biophysics and Biological Physics
62	Cellular and Biomolecular Mechanics and Mechanobiology	Amit Gefen	Biomedical Engineering; Cell Biology
63	Stem Cell Engineering	Gerhard M. Artmann, Stephen Minger, Jürgen Hescheler	Biomedical Engineering; Cell Biology; Biotechnology
64	Harnessing Biological Complexity	Taishin Nomura, Yoshiyuki Asai	Biomedical Engineering; Complexity; Molecular Medicine; Medicinal Chemistry
65	Biomedical Sensors and Measurement	Ping Wang, Qingjun Liu	Biomedical Engineering; Computer Appl. in Life Sciences; Biophysics and Biological Physics; Electronics and Microelectronics, Instrumentation
66	Handbook of Digital Homecare	Lodewijk Bos, Adrie Dumay, Leonard Goldschmidt, Griet Verhenneman, Kanagasingam Yogesan	Biomedical Engineering; Computer Appl. in Social and Behavioral Sciences; Health Informatics
67	Pumps and Pipes	Mark G. Davies, Alan B. Lumsden, William E. Kline, Ioannis Kakadiaris	Biomedical Engineering; Control, Robotics, Mechatronics; Cardiology; Biotechnology; Biophysics and Biological Physics
68	Surgical Robotics	Jacob Rosen, Blake Hannaford, Richard M. Satava	Biomedical Engineering; Control, Robotics, Mechatronics; Minimally Invasive Surgery

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S.No.	Book Title	Author	Subject Classification
69	Sick Building Syndrome	Sabah A. Abdul-Wahab	Biomedical Engineering; Environmental Health; Building Types and Functions; Occupational Medicine/Industrial Medicine; Immunology; Building Construction
70	Future Visions on Biomedicine and Bioinformatics 2	Lodewijk Bos, Denis Carroll, Luis Kun, Andrew Marsh, Laura M. Roa	Biomedical Engineering; Health Informatics; Data Mining and Knowledge Discovery
71	X-Ray Computed Tomography in Biomedical Engineering	Robert Cierniak	Biomedical Engineering; Imaging / Radiology; Signal, Image and Speech Processing; Image Processing and Computer Vision
72	Image-Based Computational Modeling of the Human Circulatory and Pulmonary Systems	Krishnan B. Chandran, H. S. Udaykumar, Joseph M. Reinhardt	Biomedical Engineering; Imaging / Radiology; Simulation and Modeling; Classical Continuum Physics; Signal, Image and Speech Processing
73	5th Kuala Lumpur International Conference on Biomedical Engineering 2011	Noor Azuan Abu Osman, Wan Abu Bakar Wan Abas, Ahmad Khairi Abdul Wahab, Hua-Nong Ting	Biomedical Engineering; Medical and Radiation Physics
74	15th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC 2011)	Kim Dremstrup, Steve Rees, Morten Ølgaard Jensen	Biomedical Engineering; Medical and Radiation Physics; Health Informatics; Signal, Image and Speech Processing
75	Nanopores	Samir M. Iqbal, Rashid Bashir	Biomedical Engineering; Nanotechnology and Microengineering; Biochemistry, general
76	Neural Tissue Biomechanics	Lynne E. Bilston	Biomedical Engineering; Neurosciences; Biomaterials; Neurology; Continuum Mechanics and Mechanics of Materials
77	Visual Prosthetics	Gislin Dagnelie	Biomedical Engineering; Ophthalmology; Rehabilitation Medicine; Biophysics and Biological Physics; Neurosciences
78	8th International Conference on Cell & Stem Cell Engineering (ICCE)	Alicia Haj, Dan Bader	Biomedical Engineering; Physics of the Cell; Stem Cells
79	Ambient Assisted Living	Reiner Wichert, Birgid Eberhardt	Biomedical Engineering; R & D/Technology Policy; Aging; Geriatrics/Gerontology; Computer Appl. in Social and Behavioral Sciences
80	Myocardial Tissue Engineering	Aldo R. Boccaccini, Sian E. Harding	Biomedical Engineering; Stem Cells; Biomaterials; Gene Therapy; Cardiology
81	Advances in FRP Composites in Civil Engineering	Lieping Ye, Peng Feng, Qingrui Yue	Building Construction; Building Materials; Ceramics, Glass, Composites, Natural Materials
82	Earthquake Resistant Buildings	M.Y.H. Bangash	Building Construction; Structural Mechanics

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S.No.	Book Title	Author	Subject Classification
83	Durability of Strain-Hardening Fibre-Reinforced Cement-Based Composites (SHCC)	F. Wittmann, G. Van Zijl	Building Materials; Building Repair and Maintenance; Structural Materials
84	Bonded Cement-Based Material Overlays for the Repair, the Lining or the Strengthening of Slabs or Pavements	Benoît Bissonnette, Luc Courard, David W. Fowler, Jean-Louis Granju	Building Materials; Building Repair and Maintenance; Structural Materials
85	In Situ Assessment of Structural Timber	Bohumil Kasal, Thomas Tannert	Building Materials; Building Repair and Maintenance; Wood Science & Technology; Design, general; Science, general
86	Numerical Modeling of Concrete Cracking	Günter Hofstetter, Günther Meschke	Building Materials; Computational Science and Engineering; Structural Materials
87	Eco-efficient Construction and Building Materials	Fernando Pacheco Torgal, Said Jalali	Building Materials; Energy Efficiency (incl. Buildings); Structural Materials; Sustainable Development
88	Modelling of Corroding Concrete Structures	Carmen Andrade, Giuseppe Mancini	Building Materials; Structural Materials; Quality Control, Reliability, Safety and Risk
89	Concrete Fracture Models and Applications	Shailendra Kumar, Sudhirkumar V Barai	Building Materials; Structural Mechanics; Structural Materials; Appl.Mathematics/Computational Methods of Engineering
90	Modelli decisionali per la produzione, la logistica e i servizi energetici	Roberto Pinto, Maria Teresa Vespucci	Business/Management Science, general; Operation Research/Decision Theory; Production/Logistics/Supply Chain Management; Optimization; Operations Research, Management Science; Mathematical Modeling and Industrial Mathematics
91	Memory Mass Storage	Giovanni Campardo, Federico Tiziani, Massimo Iaculo	Circuits and Systems
92	Introduction to Circuit Analysis and Design	Tildon H. Glisson	Circuits and Systems
93	Time-interleaved Analog-to-Digital Converters	Simon Louwsma, Ed Tuijl, Bram Nauta	Circuits and Systems
94	Model Reduction for Circuit Simulation	Peter Benner, Michael Hinze, E. Jan W. ter Maten	Circuits and Systems; Appl.Mathematics/Computational Methods of Engineering; Systems Theory, Control
95	Bio-Medical CMOS ICs	Hoi-Jun Yoo, Chris Hoof	Circuits and Systems; Biomedical Engineering; Electronics and Microelectronics, Instrumentation
96	Intelligent Automation and Systems Engineering	Sio-long Ao, Mahyar Amouzegar, Burghard B. Rieger	Circuits and Systems; Computational Intelligence; Robotics and Automation
97	Post-Silicon and Runtime Verification for Modern Processors	Ilya Wagner, Valeria Bertacco	Circuits and Systems; Computer Hardware; Computer-Aided Engineering (CAD, CAE) and Design

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S.No.	Book Title	Author	Subject Classification
98	Look-Ahead Based Sigma-Delta Modulation	Erwin Janssen, Arthur van Roermund	Circuits and Systems; Computer Systems Organization and Communication Networks
99	VLSI 2010 Annual Symposium	Nikolaos Voros, Amar Mukherjee, Nicolas Sklavos, Konstantinos Masselos, Michael Huebner	Circuits and Systems; Computer Systems Organization and Communication Networks; Register-Transfer-Level Implementation; Performance and Reliability; Computational Biology/Bioinformatics; Electronics and Microelectronics, Instrumentation
100	Multiprocessor System-on-Chip	Michael Hübner, Jürgen Becker	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
101	Focal-Plane Sensor-Processor Chips	Ákos Zarándy	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
102	Dependability in Electronic Systems	Nobuyasu Kanekawa, Eishi H. Ibe, Takashi Suga, Yutaka Uematsu	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
103	Ultra Low-Power Integrated Circuit Design for Wireless Neural Interfaces	Jeremy Holleman, Fan Zhang, Brian Otis	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
104	Design and Analysis of Biomolecular Circuits	Heinz Koepl, Gianluca Setti, Mario di Bernardo, Douglas Densmore	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
105	On-Chip Interconnect with aelite	Andreas Hansson, Kees Goossens	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
106	Low Power Networks-on-Chip	Cristina Silvano, Marcello Lajolo, Gianluca Palermo	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
107	Analog Layout Synthesis	Helmut E. Graeb	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
108	Design of Image Processing Embedded Systems Using Multidimensional Data Flow	Joachim Keinert, Jürgen Teich	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
109	Ultra-thin Chip Technology and Applications	Joachim Burghartz	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
110	Run-time Adaptation for Reconfigurable Embedded Processors	Lars Bauer, Jörg Henkel	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
111	Low-Power Variation-Tolerant Design in Nanometer Silicon	Swarup Bhunia, Saibal Mukhopadhyay	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
112	Advanced Techniques in Logic Synthesis, Optimizations and Applications	Kanupriya Gulati	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design

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S.No.	Book Title	Author	Subject Classification
113	Cloud Connectivity and Embedded Sensory Systems	Lambert Spaanenburg, Hendrik Spaanenburg	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
114	Voltage Regulators for Next Generation Microprocessors	Toni López, Reinhold Elferich, Eduard Alarcón	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
115	Energy Harvesting Systems	Tom J. Kazmierski, Steve Beeby	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
116	Reconfigurable Field Programmable Gate Arrays for Mission-Critical Applications	Niccolò Battezzati, Luca Sterpone, Massimo Violante	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
117	CMOS Circuits for Passive Wireless Microsystems	Fei Yuan	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
118	Nanoscale Memory Repair	Masashi Horiguchi, Kiyoo Itoh	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
119	Digitally-Assisted Analog and RF CMOS Circuit Design for Software-Defined Radio	Kenichi Okada, Shouhei Kousai	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
120	The Simple Art of SoC Design	Michael Keating, Synopsys Fellow	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
121	Multi-objective Design Space Exploration of Multiprocessor SoC Architectures	Cristina Silvano, William Fornaciari, Eugenio Villar	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
122	Nano-Electronic Devices	Dragica Vasileska, Stephen M. Goodnick	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
123	Principles of VLSI RTL Design	Sanjay Churiwala, Sapan Garg	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
124	High-Level Verification	Sudipta Kundu, Sorin Lerner, Rajesh K. Gupta	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
125	Formal Development of a Network-Centric RTOS	Eric Verhulst, Raymond T. Boute, José Miguel Sampaio Faria, Bernhard H.C. Spath, Vitaliy Mezhuyev	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
126	Programming Many-Core Chips	András Vajda	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
127	Reconfigurable Computing	João M. P. Cardoso, Michael Hübner	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
128	Wearable Monitoring Systems	Annalisa Bonfiglio, Danilo De Rossi	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design; Biomedical Engineering

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S.No.	Book Title	Author	Subject Classification
129	On-Chip Instrumentation	Neal Stollon	Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design; Measurement Science and Instrumentation
130	Design Methodologies for Secure Embedded Systems	Alexander Biedermann, H. Gregor Molter	Circuits and Systems; Control, Robotics, Mechatronics; Electrical Engineering; Special Purpose and Application-Based Systems
131	Asynchronous Operators of Sequential Logic: Venjunction & Sequentation	Vadim Vasyukevich	Circuits and Systems; Electrical Engineering
132	Operational Amplifiers	Johan Huijsing	Circuits and Systems; Electronic Circuits and Devices; Processor Architectures
133	Application-Specific Mesh-based Heterogeneous FPGA Architectures	Husain Parvez, Habib Mehrez	Circuits and Systems; Electronics and Microelectronics, Instrumentation
134	Smart and Flexible Digital-to-Analog Converters	Georgi Radulov, Patrick Quinn, Hans Hegt, Arthur H.M. van Roermund	Circuits and Systems; Electronics and Microelectronics, Instrumentation
135	Introduction to Mixed-Signal, Embedded Design	Alex Doboli, Edward H. Currie	Circuits and Systems; Electronics and Microelectronics, Instrumentation; Computer-Aided Engineering (CAD, CAE) and Design; Engineering Design
136	VCO-Based Quantizers Using Frequency-to-Digital and Time-to-Digital Converters	Samantha Yoder, Mohammed Ismail, Waleed Khalil	Circuits and Systems; Electronics and Microelectronics, Instrumentation; Microwaves, RF and Optical Engineering
137	High-Speed Optical Receivers with Integrated Photodiode in Nanoscale CMOS	Filip Tavernier, Michiel Steyaert	Circuits and Systems; Electronics and Microelectronics, Instrumentation; Nanotechnology and Microengineering
138	Predictive Technology Model for Robust Nanoelectronic Design	Yu Cao	Circuits and Systems; Electronics and Microelectronics, Instrumentation; Nanotechnology; Performance and Reliability
139	CMOS High Efficiency On-chip Power Management	John Hu, Mohammed Ismail	Circuits and Systems; Electronics and Microelectronics, Instrumentation; Power Electronics, Electrical Machines and Networks
140	Power Distribution Networks with On-Chip Decoupling Capacitors	Renatas Jakushokas, Mikhail Popovich, Andrey V. Mezhiba, Selçuk Köse, Eby G. Friedman	Circuits and Systems; Electronics and Microelectronics, Instrumentation; Processor Architectures
141	VLSI Design	Vikram Arkalgud Chandrasetty	Circuits and Systems; Electronics and Microelectronics, Instrumentation; Processor Architectures
142	Minimizing Spurious Tones in Digital Delta-Sigma Modulators	Kaveh Hosseini, Michael Peter Kennedy	Circuits and Systems; Electronics and Microelectronics, Instrumentation; Signal, Image and Speech Processing

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143	Automatic Gain Control	Juan Pablo Alegre Pérez, Santiago Celma Pueyo, Belén Calvo López	Circuits and Systems; Electronics and Microelectronics, Instrumentation; Signal, Image and Speech Processing
144	Oversampling A/D Converters with Improved Signal Transfer Functions	Bupesh Pandita	Circuits and Systems; Electronics and Microelectronics, Instrumentation; Signal, Image and Speech Processing
145	Analog Circuit Design	Herman Casier, Michiel Steyaert, Arthur H.M. van Roermund	Circuits and Systems; Input/Output and Data Communications
146	Design and Implementation of Fully-Integrated Inductive DC-DC Converters in Standard CMOS	Mike Wens, Michiel Steyaert	Circuits and Systems; Input/Output and Data Communications; Solid State Physics
147	VLSI Physical Design: From Graph Partitioning to Timing Closure	Andrew B. Kahng, Jens Lienig, Igor L. Markov, Jin Hu	Circuits and Systems; Logic Design; Electronics and Microelectronics, Instrumentation; Computer-Aided Engineering (CAD, CAE) and Design
148	Memory Controllers for Real-Time Embedded Systems	Benny Akesson, Kees Goossens	Circuits and Systems; Memory Structures
149	Nano-Bio-Sensing	Sandro Carrara	Circuits and Systems; Nanotechnology and Microengineering; Biomaterials
150	CMOS Integrated Switching Power Converters	Gerard Villar Piqué, Eduard Alarcón	Circuits and Systems; Offshore Engineering; Electronics and Microelectronics, Instrumentation
151	Analog Circuits and Systems for Voltage-Mode and Current-Mode Sensor Interfacing Applications	Andrea De Marcellis, Giuseppe Ferri	Circuits and Systems; Optics, Optoelectronics, Plasmonics and Optical Devices
152	Application Analysis Tools for ASIP Design	Kingshuk Karuri, Rainer Leupers	Circuits and Systems; Processor Architectures
153	Multiprocessor Systems on Chip	Torsten Kempf, Gerd Ascheid, Rainer Leupers	Circuits and Systems; Processor Architectures; Electronic Circuits and Devices
154	Hardware/Software Architectures for Low-Power Embedded Multimedia Systems	Muhammad Shafique, Jörg Henkel	Circuits and Systems; Processor Architectures; Energy, general
155	Worst-Case Execution Time Aware Compilation Techniques for Real-Time Systems	Paul Lokuciejewski, Peter Marwedel	Circuits and Systems; Programming Languages, Compilers, Interpreters; Processor Architectures; Software Engineering/Programming and Operating Systems
156	Reliability of Nanoscale Circuits and Systems	Miloš Stanisavljević, Alexandre Schmid, Yusuf Leblebici	Circuits and Systems; Quality Control, Reliability, Safety and Risk; Computer-Aided Engineering (CAD, CAE) and Design
157	Electronic System Level Design	Sandro Rigo, Rodolfo Azevedo, Luiz Santos	Circuits and Systems; Register-Transfer-Level Implementation
158	Integrated 60GHz RF Beamforming in CMOS	Yikun Yu, Peter G.M. Baltus, Arthur H.M. van Roermund	Circuits and Systems; Semiconductors; Microwaves, RF and Optical Engineering

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S.No.	Book Title	Author	Subject Classification
159	Design of Digital Systems and Devices	Marian Adamski, Alexander Barkalov, Marek Węgrzyn	Circuits and Systems; Signal, Image and Speech Processing; Computer System Implementation
160	Device-Level Modeling and Synthesis of High-Performance Pipeline ADCs	Jesús Ruiz-Amaya, Manuel Delgado-Restituto, Ángel Rodríguez-Vázquez	Circuits and Systems; Signal, Image and Speech Processing; Processor Architectures
161	Simulation and Verification of Electronic and Biological Systems	Peng Li, Luís Miguel Silveira, Peter Feldmann	Circuits and Systems; Simulation and Modeling; Nanotechnology and Microengineering
162	3D Integration for NoC-based SoC Architectures	Abbas Sheibanyrad, Frédéric Pétrot, Axel Jantsch	Circuits and Systems; Software Engineering
163	Embedded System Design	Peter Marwedel	Circuits and Systems; Software Engineering/Programming and Operating Systems
164	Accelerating Test, Validation and Debug of High Speed Serial Interfaces	Yongquan Fan, Zeljko Zilic	Circuits and Systems; Software Engineering/Programming and Operating Systems; Electronics and Microelectronics, Instrumentation; System Performance and Evaluation
165	Software Defined Radios	Sofie Pollin, Michael Timmers, Liesbet Van der Perre	Circuits and Systems; Solid State Physics
166	Robust Sigma Delta Converters	Robert H.M. van Veldhoven, Arthur H.M. van Roermund	Circuits and Systems; Solid State Physics; Input/Output and Data Communications
167	Adaptive RF Front-Ends for Hand-held Applications	Andre van Bezooijen, Reza Mahmoudi, Arthur van Roermund	Circuits and Systems; Solid State Physics; Input/Output and Data Communications; Microwaves, RF and Optical Engineering
168	Architectures and Synthesizers for Ultra-low Power Fast Frequency-Hopping WSN Radios	Emanuele Lopelli, Johan van der Tang, Arthur H.M. van Roermund	Circuits and Systems; Solid State Physics; Microwaves, RF and Optical Engineering
169	Views on Evolvability of Embedded Systems	Pierre Van de Laar, Teade Punter	Circuits and Systems; Special Purpose and Application-Based Systems
170	Security Trends for FPGAS	Benoit Badrignans, Jean Luc Danger, Viktor Fischer, Guy Gogniat, Lionel Torres	Circuits and Systems; Special Purpose and Application-Based Systems; Systems and Data Security
171	Soft Errors in Modern Electronic Systems	Michael Nicolaidis	Circuits and Systems; System Performance and Evaluation; Performance and Reliability; Electrical Engineering
172	Analisi Dimensionale e Modellistica Fisica	Sandro Longo	Civil Engineering; Fluid- and Aerodynamics; Science, general
173	Applications of Titanium Dioxide Photocatalysis to Construction Materials	Yoshihiko Ohama, Dionys Van Gemert	Civil Engineering; Nanotechnology; Applied and Technical Physics

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S.No.	Book Title	Author	Subject Classification
174	Nanotechnology in Civil Infrastructure	Kasthurirangan Gopalakrishnan, Bjorn Birgisson, Peter Taylor, Nii O. Attoh-Okine	Civil Engineering; Nanotechnology; Sustainable Development; Renewable and Green Energy; Computational Intelligence; Landscape/Regional and Urban Planning
175	Civil Engineering Topics, Volume 4	Tom Proulx	Civil Engineering; Vibration, Dynamical Systems, Control; Structural Mechanics
176	Remote Instrumentation Services on the e-Infrastructure	Franco Davoli, Norbert Meyer, Roberto Pugliese, Sandro Zappatore	Communications Engineering, Networks
177	Voice over IP Networks	Pramode K. Verma, Ling Wang	Communications Engineering, Networks
178	Entropy Coders of the H.264/AVC Standard	Xiaohua Tian, Thinh M. Le, Yong Lian	Communications Engineering, Networks
179	High Above	Chris Forrester	Communications Engineering, Networks; Aerospace Technology and Astronautics; Geographical Information Systems/Cartography; Engineering Economics, Organization, Logistics, Marketing
180	Advances in Network-Embedded Management and Applications	Alexander Clemm, Ralf Wolter	Communications Engineering, Networks; Circuits and Systems; Computer Systems Organization and Communication Networks
181	On the Achievable Rate of Stationary Fading Channels	Meik Dörpinghaus	Communications Engineering, Networks; Coding and Information Theory; Computational Science and Engineering; Signal, Image and Speech Processing
182	Principles of Spread-Spectrum Communication Systems	Don Torrieri	Communications Engineering, Networks; Coding and Information Theory; Signal, Image and Speech Processing; Computer Systems Organization and Communication Networks
183	Synchronization Techniques for Chaotic Communication Systems	Branislav Jovic	Communications Engineering, Networks; Complexity; Electrical Engineering
184	Cognitive Radio Mobile Ad Hoc Networks	F. Richard Yu	Communications Engineering, Networks; Computer Communication Networks
185	Sensor Networks with IEEE 802.15.4 Systems	Chiara Buratti, Marco Martalò, Gianluigi Ferrari, Roberto Verdone	Communications Engineering, Networks; Computer Communication Networks
186	Coping with Interference in Wireless Networks	Seyed Javad Kazemitabar	Communications Engineering, Networks; Computer Communication Networks
187	The Emerging Domain of Cooperating Objects	Pedro José Marron, Stamatis Karnouskos, Daniel Minder, Anibal Ollero	Communications Engineering, Networks; Computer Communication Networks; Control, Robotics, Mechatronics; Circuits and Systems

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188	Trustworthy Internet	Luca Salgarelli, Giuseppe Bianchi, Nicola Blefari-Melazzi	Communications Engineering, Networks; Computer Communication Networks; Performance and Reliability; Systems and Data Security; Information Systems Applications (incl.Internet); Information Systems and Communication Service
189	Understanding LTE and its Performance	Tara Ali-Yahiya	Communications Engineering, Networks; Computer Communication Networks; Signal,Image and Speech Processing
190	Globalization of Mobile and Wireless Communications	Ramjee Prasad, Sudhir Dixit, Richard van Nee, Tero Ojanpera	Communications Engineering, Networks; Computer Systems Organization and Communication Networks
191	Network Reliability and Resilience	Ilya Gertsbakh, Yoseph Shpungin	Communications Engineering, Networks; Computer Systems Organization and Communication Networks; Quality Control, Reliability, Safety and Risk
192	Wireless Networking Based Control	Sudip K. Mazumder	Communications Engineering, Networks; Control; Computer Communication Networks
193	Control and Adaptation in Telecommunication Systems	Vladimir Popovskij, Alexander Barkalov, Larysa Titarenko	Communications Engineering, Networks; Electrical Engineering; Control; Appl.Mathematics/Computational Methods of Engineering
194	VLSI for Wireless Communication	Bosco Leung	Communications Engineering, Networks; Electrical Engineering; Signal,Image and Speech Processing; Circuits and Systems; Electronics and Microelectronics, Instrumentation; Microwaves, RF and Optical Engineering
195	Dot-Dash to Dot.Com	Andrew Wheen	Communications Engineering, Networks; History of Computing; Computer Communication Networks; Electronic Circuits and Devices; Popular Science in Mathematics/Computer Science/Natural Science/Technology
196	REST: From Research to Practice	Erik Wilde, Cesare Pautasso	Communications Engineering, Networks; Information Systems and Communication Service; Software Engineering
197	Architecture and Design for the Future Internet	Luis M. Correia, Henrik Abramowicz, Martin Johnsson, Klaus Wünnstel	Communications Engineering, Networks; Information Systems Applications (incl.Internet)
198	Sharing RF Spectrum with Commodity Wireless Technologies	Jan Kruys, Luke Qian	Communications Engineering, Networks; Microwaves, RF and Optical Engineering; Applied and Technical Physics

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199	IT Convergence and Services	James J. Park, Hamid Arabnia, Hang-Bae Chang, Taeshik Shon	Communications Engineering, Networks; Multimedia Information Systems; Computer Systems Organization and Communication Networks; Computational Science and Engineering; Business/Management Science, general; Biomedical Engineering
200	New Software Engineering Paradigm Based on Complexity Science	Jay Xiong	Complexity; Algorithm Analysis and Problem Complexity; Complex Networks
201	Morphogenesis	Paul Bourguine, Annick Lesne	Complexity; Biophysics and Biological Physics; Strongly Correlated Systems, Superconductivity
202	Nonlinear Dynamical Systems in Engineering	Vasile Marinca, Nicolae Herisanu	Complexity; Computational Mathematics and Numerical Analysis; Nonlinear Dynamics
203	Complexity Metrics in Engineering Design	Matthias Kreimeyer, Udo Lindemann	Complexity; Engineering Design; Computer-Aided Engineering (CAD, CAE) and Design; Business Information Systems
204	Nonlinear Science and Complexity	J.A. Tenreiro Machado, Albert C.J. Luo, Ramiro S. Barbosa, Manuel F. Silva, Lino B. Figueiredo	Complexity; Statistical Physics, Dynamical Systems and Complexity; Computational Mathematics and Numerical Analysis; Applications of Mathematics
205	Possibility for Decision	Christer Carlsson, Robert Fullér	Computational Intelligence; Appl.Mathematics/Computational Methods of Engineering; Probability and Statistics in Computer Science
206	On Collective Intelligence	Theo J. Bastiaens, Ulrike Baumöl, Bernd J. Krämer	Computational Intelligence; Artificial Intelligence (incl. Robotics)
207	Information Retrieval and Mining in Distributed Environments	Alessandro Soro, Eloisa Vargiu, Giuliano Armano, Gavino Paddeu	Computational Intelligence; Artificial Intelligence (incl. Robotics)
208	Advances in Practical Multi-Agent Systems	Quan Bai, Naoki Fukuta	Computational Intelligence; Artificial Intelligence (incl. Robotics)
209	Indistinguishability Operators	Jordi Recasens	Computational Intelligence; Artificial Intelligence (incl. Robotics)
210	35 Years of Fuzzy Set Theory	Chris Cornelis, Glad Deschrijver, Mike Nachtegael, Steven Schockaert, Yun Shi	Computational Intelligence; Artificial Intelligence (incl. Robotics)
211	Stability Analysis and Nonlinear Observer Design Using Takagi-Sugeno Fuzzy Models	Zsófia Lendek, Thierry Marie Guerra, Robert Babuška, Bart Schutter	Computational Intelligence; Artificial Intelligence (incl. Robotics)

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212	Fuzzy-Like Multiple Objective Decision Making	Jiuping Xu, Xiaoyang Zhou	Computational Intelligence; Artificial Intelligence (incl. Robotics)
213	Context-Aware Ranking with Factorization Models	Steffen Rendle	Computational Intelligence; Artificial Intelligence (incl. Robotics)
214	Intelligent Mathematics: Computational Analysis	George A. Anastassiou	Computational Intelligence; Artificial Intelligence (incl. Robotics)
215	New Directions in Web Data Management 1	Athena Vakali, Lakhmi C. Jain	Computational Intelligence; Artificial Intelligence (incl. Robotics)
216	Innovations in Defence Support Systems -2	Lakhmi C. Jain, Eugene V. Aidman, Canicious Abeynayake	Computational Intelligence; Artificial Intelligence (incl. Robotics)
217	Intelligence-Based Systems Engineering	Andreas Tolk, Lakhmi C. Jain	Computational Intelligence; Artificial Intelligence (incl. Robotics)
218	Innovations in Defence Support Systems – 3	Paolo Remagnino, Dorothy N. Monekosso, Lakhmi C. Jain	Computational Intelligence; Artificial Intelligence (incl. Robotics)
219	Mobile Hybrid Intrusion Detection	Álvaro Herrero, Emilio Corchado	Computational Intelligence; Artificial Intelligence (incl. Robotics)
220	Combinations of Intelligent Methods and Applications	Ioannis Hatzilygeroudis, Jim Prentzas	Computational Intelligence; Artificial Intelligence (incl. Robotics)
221	Soft Computing Models in Industrial and Environmental Applications, 6th International Conference SOCO 2011	Emilio Corchado, Václav Snášel, Javier Sedano, Aboul Ella Hassanien, José Luis Calvo, Dominik Ślęzak	Computational Intelligence; Artificial Intelligence (incl. Robotics)
222	Data Mining	Florin Gorunescu	Computational Intelligence; Artificial Intelligence (incl. Robotics)
223	Technology-Enhanced Systems and Tools for Collaborative Learning Scaffolding	Thanasis Daradoumis, Santi Caballé, Angel A. Juan, Fatos Xhafa	Computational Intelligence; Artificial Intelligence (incl. Robotics)
224	Granular Computing and Intelligent Systems	Witold Pedrycz, Shyi-Ming Chen	Computational Intelligence; Artificial Intelligence (incl. Robotics)
225	Advances on Practical Applications of Agents and Multiagent Systems	Yves Demazeau, Michal Pěchouček, Juan M. Corchado, Javier Bajo Pérez	Computational Intelligence; Artificial Intelligence (incl. Robotics)
226	User-Centric Technologies and Applications	José M. Molina, José Ramón Casar Corredra, Manuel Felipe Cátedra Pérez, Javier Ortega-García, Ana M. Bernardos Barbolla	Computational Intelligence; Artificial Intelligence (incl. Robotics)

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227	Highlights in Practical Applications of Agents and Multiagent Systems	Javier Bajo Pérez, Juan M. Corchado, María N. Moreno, Vicente Julián, Philippe Mathieu, Joaquin Canada-Bago, Alfonso Ortega, Antonio Fernández Caballero	Computational Intelligence; Artificial Intelligence (incl. Robotics)
228	Trends in Practical Applications of Agents and Multiagent Systems	Juan M. Corchado, Javier Bajo Pérez, Kasper Hallenborg, Paulina Golinska, Rafael Corchuelo	Computational Intelligence; Artificial Intelligence (incl. Robotics)
229	International Symposium on Distributed Computing and Artificial Intelligence	Ajith Abraham, Juan M. Corchado, Sara Rodríguez González, Juan F. Paz Santana	Computational Intelligence; Artificial Intelligence (incl. Robotics)
230	Ambient Intelligence - Software and Applications	Paulo Novais, Davy Preuveneers, Juan M. Corchado	Computational Intelligence; Artificial Intelligence (incl. Robotics)
231	New Challenges for Intelligent Information and Database Systems	Ngoc Thanh Nguyen, Bogdan Trawiński, Jason J. Jung	Computational Intelligence; Artificial Intelligence (incl. Robotics)
232	Expert Fuzzy Information Processing	Olga Poleshchuk, Evgeniy Komarov	Computational Intelligence; Artificial Intelligence (incl. Robotics)
233	Computational Intelligence	Kurosh Madani, António Dourado Correia, Agostinho Rosa, Joaquim Filipe	Computational Intelligence; Artificial Intelligence (incl. Robotics)
234	Hybrid Random Fields	Antonino Freno, Edmondo Trentin	Computational Intelligence; Artificial Intelligence (incl. Robotics)
235	Computer Recognition Systems 4	Robert Burduk, Marek Kurzyński, Michał Woźniak, Andrzej Żołnierek	Computational Intelligence; Artificial Intelligence (incl. Robotics)
236	Knowledge Annotation: Making Implicit Knowledge Explicit	Alexiei Dingli	Computational Intelligence; Artificial Intelligence (incl. Robotics)
237	Complex-Valued Neural Networks with Multi-Valued Neurons	Igor Aizenberg	Computational Intelligence; Artificial Intelligence (incl. Robotics)
238	Innovation through Knowledge Transfer 2010	Robert J. Howlett	Computational Intelligence; Artificial Intelligence (incl. Robotics)
239	Consensual Processes	Enrique Herrera-Viedma, José Luis García-Lapresta, Janusz Kacprzyk, Mario Fedrizzi, Hannu Nurmi, Sławomir Zadrozny	Computational Intelligence; Artificial Intelligence (incl. Robotics)
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242	Meta-Learning in Computational Intelligence	Norbert Jankowski, Włodzisław Duch, Krzysztof Grąbczewski	Computational Intelligence; Artificial Intelligence (incl. Robotics)
243	Computational Optimization and Applications in Engineering and Industry	Xin-She Yang, Sławomir Koziel	Computational Intelligence; Artificial Intelligence (incl. Robotics)
244	Combinatorial Machine Learning	Mikhail Moshkov, Beata Zielosko	Computational Intelligence; Artificial Intelligence (incl. Robotics)
245	Intelligent Systems	Crina Grosan, Ajith Abraham	Computational Intelligence; Artificial Intelligence (incl. Robotics)
246	Intelligent Decision Systems in Large-Scale Distributed Environments	Pascal Bouvry, Horacio González-Vélez, Joanna Kołodziej	Computational Intelligence; Artificial Intelligence (incl. Robotics)
247	Computers, Networks, Systems, and Industrial Engineering 2011	Roger Lee	Computational Intelligence; Artificial Intelligence (incl. Robotics)
248	Computer and Information Science 2011	Roger Lee	Computational Intelligence; Artificial Intelligence (incl. Robotics)
249	Advances in Distributed Agent-Based Retrieval Tools	Vincenzo Pallotta, Alessandro Soro, Eloisa Vargiu	Computational Intelligence; Artificial Intelligence (incl. Robotics)
250	Dependable Computer Systems	Wojciech Zamojski, Janusz Kacprzyk, Jacek Mazurkiewicz, Jarosław Sugier, Tomasz Walkowiak	Computational Intelligence; Artificial Intelligence (incl. Robotics)
251	Intelligent Decision Technologies	Junzo Watada, Gloria Phillips-Wren, Lakhmi C. Jain, Robert J. Howlett	Computational Intelligence; Artificial Intelligence (incl. Robotics)
252	Approximate Reasoning by Parts	Lech Polkowski	Computational Intelligence; Artificial Intelligence (incl. Robotics)
253	Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing 2011	Roger Lee	Computational Intelligence; Artificial Intelligence (incl. Robotics)
254	Average Time Complexity of Decision Trees	Igor Chikalov	Computational Intelligence; Artificial Intelligence (incl. Robotics)
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256	Emerging Intelligent Technologies in Industry	Dominik Ryzko, Henryk Rybiński, Piotr Gawrysiak, Marzena Kryszkiewicz	Computational Intelligence; Artificial Intelligence (incl. Robotics)
257	Ensembles in Machine Learning Applications	Oleg Okun, Giorgio Valentini, Matteo Re	Computational Intelligence; Artificial Intelligence (incl. Robotics)
258	Learning Structure and Schemas from Documents	Marenglen Biba, Fatos Xhafa	Computational Intelligence; Artificial Intelligence (incl. Robotics)
259	Third International Conference on Software, Services and Semantic Technologies S3T 2011	Darina Dicheva, Zdravko Markov, Eliza Stefanova	Computational Intelligence; Artificial Intelligence (incl. Robotics)
260	Semantic Methods for Knowledge Management and Communication	Radosław Katarzyniak, Tzu-Fu Chiu, Chao-Fu Hong, Ngoc Thanh Nguyen	Computational Intelligence; Artificial Intelligence (incl. Robotics)
261	Advances in Computer Science, Intelligent System and Environment	David Jin, Sally Lin	Computational Intelligence; Artificial Intelligence (incl. Robotics)
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263	Advances in Computer Science, Intelligent System and Environment	David Jin, Sally Lin	Computational Intelligence; Artificial Intelligence (incl. Robotics)
264	Artificial Intelligence for Computer Games	Pedro Antonio González-Calero, Marco Antonio Gómez-Martin	Computational Intelligence; Artificial Intelligence (incl. Robotics); Appl.Mathematics/Computational Methods of Engineering
265	From Curve Fitting to Machine Learning	Achim Zielesny	Computational Intelligence; Artificial Intelligence (incl. Robotics); Appl.Mathematics/Computational Methods of Engineering
266	Intelligent Systems: Approximation by Artificial Neural Networks	George A. Anastassiou	Computational Intelligence; Artificial Intelligence (incl. Robotics); Applications of Mathematics
267	Nonlinear Mathematics for Uncertainty and its Applications	Shoumei Li, Xia Wang, Yoshiaki Okazaki, Jun Kawabe, Toshiaki Murofushi, Li Guan	Computational Intelligence; Artificial Intelligence (incl. Robotics); Applications of Mathematics
268	5th International Conference on Practical Applications of Computational Biology & Bioinformatics (PACBB 2011)	Miguel P. Rocha, Juan M. Corchado Rodríguez, Florentino Fdez-Riverola, Alfonso Valencia	Computational Intelligence; Artificial Intelligence (incl. Robotics); Bioinformatics
269	Advanced Computational Intelligence Paradigms in Healthcare 6. Virtual Reality in Psychotherapy, Rehabilitation, and Assessment	Sheryl Brahnam, Lakhmi C. Jain	Computational Intelligence; Artificial Intelligence (incl. Robotics); Biomedical Engineering; Health Informatics

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270	Group Search Optimization for Applications in Structural Design	Lijuan Li, Feng Liu	Computational Intelligence; Artificial Intelligence (incl. Robotics); Civil Engineering; Structural Mechanics
271	Soft Computing in Industrial Applications	António Gaspar-Cunha, Ricardo Takahashi, Gerald Schaefer, Lino Costa	Computational Intelligence; Artificial Intelligence (incl. Robotics); Communications Engineering, Networks; Image Processing and Computer Vision
272	Mining and Control of Network Traffic by Computational Intelligence	Federico Montesino Pouzols, Diego R. Lopez, Angel Barriga Barros	Computational Intelligence; Artificial Intelligence (incl. Robotics); Communications Engineering, Networks; Information Systems Applications (incl. Internet)
273	Kernel-based Data Fusion for Machine Learning	Shi Yu, Léon-Charles Tranchevent, Bart Moor, Yves Moreau	Computational Intelligence; Artificial Intelligence (incl. Robotics); Computational Biology/Bioinformatics
274	Soft Computing for Intelligent Control and Mobile Robotics	Oscar Castillo, Janusz Kacprzyk, Witold Pedrycz	Computational Intelligence; Artificial Intelligence (incl. Robotics); Control
275	Swarm Stability and Optimization	Veysel Gazi, Kevin M. Passino	Computational Intelligence; Artificial Intelligence (incl. Robotics); Control, Robotics, Mechatronics; Image Processing and Computer Vision
276	Chaos-Based Cryptography	Ljupco Kocarev, Shiguo Lian	Computational Intelligence; Artificial Intelligence (incl. Robotics); Data Encryption; Data Structures, Cryptology and Information Theory
277	Computational Methods for the Innovative Design of Electrical Devices	Sławomir Wiak, Ewa Napieralska-Juszczak	Computational Intelligence; Artificial Intelligence (incl. Robotics); Electrical Engineering
278	Advances in Intelligent Web Mastering – 3	Elena Mugellini, Piotr S. Szczepaniak, Maria Chiara Pettenati, Maria Sokhn	Computational Intelligence; Artificial Intelligence (incl. Robotics); Information Systems Applications (incl. Internet)
279	Modeling Intention in Email	Vitor R. Carvalho	Computational Intelligence; Artificial Intelligence (incl. Robotics); Information Systems Applications (incl. Internet)
280	Next Generation Data Technologies for Collective Computational Intelligence	Nik Bessis, Fatos Xhafa	Computational Intelligence; Artificial Intelligence (incl. Robotics); Information Systems Applications (incl. Internet)
281	Semantic Agent Systems	Atila Elçi, Mamadou Tadiou Koné, Mehmet A. Orgun	Computational Intelligence; Artificial Intelligence (incl. Robotics); Language Translation and Linguistics
282	Dynamics and Control of Electrical Drives	Piotr Wach	Computational Intelligence; Artificial Intelligence (incl. Robotics); Mechatronics; Energy Efficiency (incl. Buildings)
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285	Knowledge Seeker - Ontology Modelling for Information Search and Management	Edward H. Y. Lim, James N. K. Liu, Raymond S. T. Lee	Computational Intelligence; Artificial Intelligence (incl. Robotics); Operation Research/Decision Theory
286	New Horizons in Evolutionary Robotics	Stéphane Doncieux, Nicolas Bredèche, Jean-Baptiste Mouret	Computational Intelligence; Artificial Intelligence (incl. Robotics); Robotics and Automation
287	Reasoning in Event-Based Distributed Systems	Sven Helmer, Alexandra Poulouvassilis, Fatos Xhafa	Computational Intelligence; Artificial Intelligence (incl. Robotics); Signal, Image and Speech Processing
288	Image Processing and Communications Challenges 3	Ryszard S. Choraś	Computational Intelligence; Artificial Intelligence (incl. Robotics); Signal, Image and Speech Processing; Communications Engineering, Networks; Image Processing and Computer Vision
289	Innovations in Intelligent Image Analysis	Halina Kwaśnicka, Lakhmi C. Jain	Computational Intelligence; Artificial Intelligence (incl. Robotics); Signal, Image and Speech Processing; Image Processing and Computer Vision
290	Paradigm Shift for Future Tennis	Tijana T. Ivancevic, Bojan Jovanovic, Sasa Jovanovic, Milka Djukic, Natalia Djukic, Alexandar Lukman	Computational Intelligence; Artificial Intelligence (incl. Robotics); Sports Medicine; Cognitive Psychology; Human Physiology
291	Intelligent Networking, Collaborative Systems and Applications	Santi Caballé, Fatos Xhafa, Ajith Abraham	Computational Intelligence; Artificial Intelligence (incl. Robotics); Statistical Physics, Dynamical Systems and Complexity
292	Emotional Cognitive Neural Algorithms with Engineering Applications	Leonid Perlovsky, Ross Deming, Roman Ilin	Computational Intelligence; Artificial Intelligence (incl. Robotics); Statistical Physics, Dynamical Systems and Complexity; Complexity; Logics and Meanings of Programs
293	Towards Intelligent Modeling: Statistical Approximation Theory	George A. Anastassiou, Oktay Duman	Computational Intelligence; Artificial Intelligence (incl. Robotics); Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences
294	Information Processing and Biological Systems	Samuli Niiranen, Andre Ribeiro	Computational Intelligence; Artificial Intelligence (incl. Robotics); Systems Biology; Computational Biology/Bioinformatics; Complexity
295	Man-Machine Interactions 2	Tadeusz Czachórski, Stanisław Kozielski, Urszula Stańczyk	Computational Intelligence; Artificial Intelligence (incl. Robotics); User Interfaces and Human Computer Interaction

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296	Fusion Methods for Unsupervised Learning Ensembles	Bruno Baruque, Emilio Corchado	Computational Intelligence; Computational Intelligence; Artificial Intelligence (incl. Robotics)
297	Intelligent Surveillance Systems	Huihuan Qian, Xinyu Wu, Yangsheng Xu	Computational Intelligence; Computer Imaging, Vision, Pattern Recognition and Graphics; Robotics and Automation
298	Computational Intelligence for Engineering Systems	Ana Madureira, Judite Ferreira, Zita Vale	Computational Intelligence; Computing Methodologies; Energy Technology
299	Future Intelligent Information Systems	Dehuai Zeng	Computational Intelligence; Electrical Engineering
300	Advanced Electrical and Electronics Engineering	Jian Lee	Computational Intelligence; Electrical Engineering
301	Understanding Violence	Lorenzo Magnani	Computational Intelligence; Ethics; Philosophy of Man; Appl.Mathematics/Computational Methods of Engineering
302	Calculus Light	Menahem Friedman, Abraham Kandel	Computational Intelligence; Information and Communication, Circuits; Appl.Mathematics/Computational Methods of Engineering
303	Mathematical Modeling	Stefan Heinz	Computational Intelligence; Mathematical Methods in Physics; Mathematical Modeling and Industrial Mathematics; Math. Applications in Chemistry
304	Soft Computing in Green and Renewable Energy Systems	Kasthurirangan Gopalakrishnan, Siddhartha Kumar Khaitan, Soteris Kalogirou	Computational Intelligence; Renewable and Green Energy; Artificial Intelligence (incl. Robotics); Environmental Engineering/Biotechnology
305	Modelling and Control for Intelligent Industrial Systems	Gerasimos G. Rigatos	Computational Intelligence; Robotics and Automation; Artificial Intelligence (incl. Robotics)
306	Bio-Inspired Self-Organizing Robotic Systems	Yan Meng, Yaochu Jin	Computational Intelligence; Robotics and Automation; Artificial Intelligence (incl. Robotics)
307	Domain-Level Reasoning for Spoken Dialogue Systems	Dirk Bühler, Wolfgang Minker	Computational Intelligence; Signal, Image and Speech Processing; User Interfaces and Human Computer Interaction; Language Translation and Linguistics
308	Finite Element Modeling for Materials Engineers Using MATLAB®	Oluleke Oluwole	Computational Intelligence; Simulation and Modeling; Computational Science and Engineering; Materials Science, general
309	Computational Techniques for Structural Health Monitoring	Srinivasan Gopalakrishnan, Massimo Ruzzene, Sathyanaraya Hanagud	Computational Intelligence; Vibration, Dynamical Systems, Control; Building Repair and Maintenance; Computer-Aided Engineering (CAD, CAE) and Design; Simulation and Modeling; Structural Materials

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310	Multiscale Methods in Computational Mechanics	René Borst, Ekkehard Ramm	Computational Science and Engineering; Appl.Mathematics/Computational Methods of Engineering; Classical Continuum Physics; Computational Intelligence; Continuum Mechanics and Mechanics of Materials
311	Computational Modelling and Advanced Simulations	Justín Murín, Vladimír Kompiš, Vladimír Kutiš	Computational Science and Engineering; Materials Science, general; Theoretical and Applied Mechanics
312	Networks for Pervasive Services	Antonio Liotta, George Exarchakos	Computer Communication Networks; Communications Engineering, Networks; Information Systems Applications (incl.Internet); Management of Computing and Information Systems
313	Satellite Data Compression	Bormin Huang	Computer Communication Networks; Communications Engineering, Networks; Signal,Image and Speech Processing; Geographical Information Systems/Cartography; Aerospace Technology and Astronautics
314	Real-Time Graphics Rendering Engine	Hujun Bao, Wei Hua	Computer Graphics
315	Computational Vision and Medical Image Processing	João Manuel R. S. Tavares, R. M. Natal Jorge	Computer Imaging, Vision, Pattern Recognition and Graphics; Imaging / Radiology; Appl.Mathematics/Computational Methods of Engineering; Signal,Image and Speech Processing; Biomedical Engineering
316	Structures de données et méthodes formelles	Marc Guyomard	Computer Science, general; Data Structures; Math Applications in Computer Science; Programming Techniques; Files; Software Engineering/Programming and Operating Systems
317	Advances on Modeling in Tissue Engineering	Paulo R. Fernandes, Paulo Jorge Bártolo	Computer-Aided Engineering (CAD, CAE) and Design; Biomedical Engineering; Biomaterials; Computational Intelligence; Cell Biology
318	Global Claims in Construction	Ali Haidar	Construction Management; Civil Law; Organization/Planning
319	Stone in Architecture	Siegfried Siegesmund, Rolf Snethlage	Construction Management; Geotechnical Engineering & Applied Earth Sciences
320	Project Management for Facility Constructions	Alberto De Marco	Construction Management; Management/Business for Professionals
321	Bifurcations, Instabilities and Degradations in Geomaterials	Richard Wan, Mustafa Alsaleh, Joe Labuz	Continuum Mechanics and Mechanics of Materials; Appl.Mathematics/Computational Methods of Engineering

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S.No.	Book Title	Author	Subject Classification
322	Nonlinear Mechanics of Crystals	John D. Clayton	Continuum Mechanics and Mechanics of Materials; Characterization and Evaluation of Materials; Crystallography
323	Intermediate Mechanics of Materials	J. R. Barber	Continuum Mechanics and Mechanics of Materials; Characterization and Evaluation of Materials; Mechanical Engineering; Civil Engineering
324	Computational Methods for Microstructure-Property Relationships	Somnath Ghosh, Dennis Dimiduk	Continuum Mechanics and Mechanics of Materials; Characterization and Evaluation of Materials; Mechanics
325	Nanoindentation	Anthony C. Fischer-Cripps	Continuum Mechanics and Mechanics of Materials; Characterization and Evaluation of Materials; Nanotechnology; Measurement Science and Instrumentation
326	Fracture Mechanics	Dietmar Gross, Thomas Seelig	Continuum Mechanics and Mechanics of Materials; Characterization and Evaluation of Materials; Structural Mechanics
327	Continuum Damage Mechanics and Numerical Applications	Wohua Zhang, Yuanqiang Cai	Continuum Mechanics and Mechanics of Materials; Computational Intelligence
328	The Finite Element Analysis of Shells - Fundamentals	Dominique Chapelle, Klaus-Jürgen Bathe	Continuum Mechanics and Mechanics of Materials; Computational Intelligence; Mechanics; Numerical Analysis
329	Plasticity and Creep of Metals	Andrew Rusinko, Konstantin Rusinko	Continuum Mechanics and Mechanics of Materials; Computational Mathematics and Numerical Analysis; Metallic Materials
330	Correction Formulae for the Stress Distribution in Round Tensile Specimens at Neck Presence	Magdalena Gromada, Gennady Mishuris, Andreas Öchsner	Continuum Mechanics and Mechanics of Materials; Computational Science and Engineering; Characterization and Evaluation of Materials
331	Mechanics and Electrodynamics of Magneto- and Electro-elastic Materials	Ray W. Ogden, David J. Steigmann	Continuum Mechanics and Mechanics of Materials; Computational Science and Engineering; Materials Science, general; Vibration, Dynamical Systems, Control
332	Cusped Shell-Like Structures	George Jaiani	Continuum Mechanics and Mechanics of Materials; Computational Science and Engineering; Mechanics
333	Dynamic Response of Pre-Stressed Spatially Curved Thin-Walled Beams of Open Profile	Yury A. Rossikhin, Marina V. Shitikova	Continuum Mechanics and Mechanics of Materials; Computational Science and Engineering; Mechanics; Civil Engineering

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List of Springer E-Books Subscribed for the 2013 in Engineering

S.No.	Book Title	Author	Subject Classification
334	Particle-Based Methods	Eugenio Oñate, Roger Owen	Continuum Mechanics and Mechanics of Materials; Computational Science and Engineering; Theoretical, Mathematical and Computational Physics; Engineering, general
335	Mathematical Theory of Elasticity of Quasicrystals and Its Applications	Tianyou Fan	Continuum Mechanics and Mechanics of Materials; Condensed Matter Physics; Applications of Mathematics
336	Advances in Bifurcation and Degradation in Geomaterials	Stéphane Bonelli, Cristian Dascalu, François Nicot	Continuum Mechanics and Mechanics of Materials; Geophysics and Environmental Physics
337	IUTAM Symposium on Multiscale Modelling of Fatigue, Damage and Fracture in Smart Materials	Meinhard Kuna, Andreas Ricoeur	Continuum Mechanics and Mechanics of Materials; Mathematical Modeling and Industrial Mathematics; Quality Control, Reliability, Safety and Risk; Characterization and Evaluation of Materials
338	Nonlinear Continuum Mechanics and Large Inelastic Deformations	Yuriy I. Dimitrienko	Continuum Mechanics and Mechanics of Materials; Mechanical Engineering; Computational Intelligence; Classical Continuum Physics; Materials Science, general
339	Interference-optical Methods of Solid Mechanics	Igor A. Razumovsky	Continuum Mechanics and Mechanics of Materials; Optics, Optoelectronics, Plasmonics and Optical Devices; Materials Science, general
340	Modelling, Simulation and Software Concepts for Scientific-Technological Problems	Ernst Stephan, Peter Wriggers	Continuum Mechanics and Mechanics of Materials; Simulation and Modeling; Appl.Mathematics/Computational Methods of Engineering
341	La scienza delle costruzioni in Italia nell'Ottocento	Danilo Capecchi, Giuseppe Ruta	Continuum Mechanics and Mechanics of Materials; Structural Mechanics; History of Mathematical Sciences; History and Philosophical Foundations of Physics
342	Advances in Extended and Multifield Theories for Continua	Bernd Markert	Continuum Mechanics and Mechanics of Materials; Theoretical and Applied Mechanics; Mechanics
343	Robotics Research	Makoto Kaneko, Yoshihiko Nakamura	Control, Robotics, Mechatronics
344	Robust Control of Robots	Adriano A. G. Siqueira, Marco H. Terra, Marcel Berggerman	Control, Robotics, Mechatronics; Artificial Intelligence (incl. Robotics)
345	Mixed Reality and Human-Robot Interaction	Xiangyu Wang	Control, Robotics, Mechatronics; Artificial Intelligence (incl. Robotics); Computer-Aided Engineering (CAD, CAE) and Design; Information Systems Applications (incl.Internet); Interaction Design; Visualization

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List of Springer E-Books Subscribed for the 2013 in Engineering

S.No.	Book Title	Author	Subject Classification
346	Service Robotics within the Digital Home	Ignacio González Alonso, Mercedes Fernández, José M. Maestre, María del Pilar Almudena García Fuente	Control, Robotics, Mechatronics; Artificial Intelligence (incl. Robotics); Computers and Society
347	Advanced Mechanics in Robotic Systems	Nestor Eduardo Nava Rodríguez	Control, Robotics, Mechatronics; Artificial Intelligence (incl. Robotics); Vibration, Dynamical Systems, Control
348	Mechatronics and Intelligent Systems for Off-road Vehicles	Francisco Rovira Más, Qin Zhang, Alan C. Hansen	Control, Robotics, Mechatronics; Automotive Engineering; Artificial Intelligence (incl. Robotics)
349	Identification of Dynamic Systems	Rolf Isermann, Marco Münchhof	Control, Robotics, Mechatronics; Complexity; Calculus of Variations and Optimal Control; Optimization; Simulation and Modeling; Numerical and Computational Physics
350	Interdisciplinary Applications of Kinematics	Andrés Kecskeméthy, Veljko Potkonjak, Andreas Müller	Control, Robotics, Mechatronics; Computational Science and Engineering; Theoretical and Applied Mechanics
351	Design, Modeling and Experiments of 3-DOF Electromagnetic Spherical Actuators	Liang Yan, I-Ming Chen, Chee Kian Lim, Guilin Yang, Kok-Meng Lee	Control, Robotics, Mechatronics; Electrical Engineering; Mechanical Engineering
352	Machine Tool Vibrations and Cutting Dynamics	Brandon C. Gegg, C. Steve Suh, Albert C. J. Luo	Control, Robotics, Mechatronics; Electronics and Microelectronics, Instrumentation; Nanotechnology and Microengineering; Manufacturing, Machines, Tools
353	Linear and Nonlinear Control of Small-Scale Unmanned Helicopters	Ioannis A. Raptis, Kimon P. Valavanis	Control, Robotics, Mechatronics; Engineering Design; Systems Theory, Control
354	Visual Sensing and its Applications	Zhongxue Gan, Qing Tang	Control, Robotics, Mechatronics; Image Processing and Computer Vision; Laser Technology, Photonics; Artificial Intelligence (incl. Robotics)
355	Drives and Control for Industrial Automation	Kok Kiong Tan, Andi Sudjana Putra	Control, Robotics, Mechatronics; Industrial and Production Engineering; Energy Technology
356	Control of Integral Processes with Dead Time	Antonio Visioli, Qingchang Zhong	Control, Robotics, Mechatronics; Industrial Chemistry/Chemical Engineering; Industrial and Production Engineering
357	Internet-based Control Systems	Shuang-Hua Yang	Control, Robotics, Mechatronics; Information Systems Applications (incl. Internet); Communications Engineering, Networks
358	Design, Modeling and Characterization of Bio-Nanorobotic Systems	Mustapha Hamdi, Antoine Ferreira	Control, Robotics, Mechatronics; Nanotechnology and Microengineering; Circuits and Systems; Biomedical Engineering

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359	Signal Measurement and Estimation Techniques for Micro and Nanotechnology	Cédric Clévy, Micky Rakotondrabe, Nicolas Chaillet	Control, Robotics, Mechatronics; Nanotechnology and Microengineering; Signal, Image and Speech Processing
360	Fault-Diagnosis Applications	Rolf Isermann	Control, Robotics, Mechatronics; Quality Control, Reliability, Safety and Risk; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences; Computer Applications; Systems Theory, Control
361	Biologically Inspired Approaches for Locomotion, Anomaly Detection and Reconfiguration for Walking Robots	Bojan Jakimovski	Control, Robotics, Mechatronics; Robotics and Automation; Artificial Intelligence (incl. Robotics)
362	Linear Time-Varying Systems	Henri Bourlès, Bogdan Marinescu	Control, Robotics, Mechatronics; Systems Theory, Control
363	Fault Detection and Isolation	Nader Meskin, Khashayar Khorasani	Control, Robotics, Mechatronics; Systems Theory, Control; Aerospace Technology and Astronautics
364	Modeling, Design, and Simulation of Systems with Uncertainties	Andreas Rauh, Ekaterina Auer	Control, Robotics, Mechatronics; Systems Theory, Control; Software Engineering/Programming and Operating Systems
365	Fault Detection and Fault-Tolerant Control Using Sliding Modes	Halim Alwi, Christopher Edwards, Chee Pin Tan	Control; Aerospace Technology and Astronautics
366	Unmanned Rotorcraft Systems	Guowei Cai, Ben M. Chen, Tong Heng Lee	Control; Artificial Intelligence (incl. Robotics); Aerospace Technology and Astronautics; Robotics and Automation; Control Structures and Microprogramming
367	Sliding Mode Based Analysis and Identification of Vehicle Dynamics	Hocine Imine, Leonid Fridman, Hassan Shraim, Mohamed Djemai	Control; Automotive Engineering
368	Decentralized Systems with Design Constraints	Magdi S. Mahmoud	Control; Communications Engineering, Networks; Computer Communication Networks; Vibration, Dynamical Systems, Control
369	Reconfigurable Control of Nonlinear Dynamical Systems	Jan H. Richter	Control; Complexity; Systems Theory, Control
370	Fault Detection and Flight Data Measurement	Ihab Samy, Da-Wei Gu	Control; Computational Intelligence; Aerospace Technology and Astronautics; Systems Theory, Control
371	Analysis and Synthesis of Networked Control Systems	Yuanqing Xia, Mengyin Fu, Guo-Ping Liu	Control; Computer Systems Organization and Communication Networks; Systems Theory, Control

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S.No.	Book Title	Author	Subject Classification
372	Lyapunov Functionals and Stability of Stochastic Difference Equations	Leonid Shaikhet	Control; Difference and Functional Equations; Calculus of Variations and Optimal Control; Optimization; Mathematical and Computational Biology; Probability Theory and Stochastic Processes; Vibration, Dynamical Systems, Control
373	Control and Monitoring of Chemical Batch Reactors	Fabrizio Caccavale, Mario Iamarino, Francesco Pierri, Vincenzo Tufano	Control; Industrial Chemistry/Chemical Engineering
374	Networked and Distributed Predictive Control	Panagiotis D. Christofides, Jinfeng Liu, David Muñoz de la Peña	Control; Industrial Chemistry/Chemical Engineering; Renewable and Green Energy; Systems Theory, Control; Computer Communication Networks
375	Control Technologies for Emerging Micro and Nanoscale Systems	Evangelos Eleftheriou, S. O. Reza Moheimani	Control; Nanotechnology and Microengineering; Systems Theory, Control
376	Tandem Cold Metal Rolling Mill Control	John Pittner, Marwan A. Simaan	Control; Operating Procedures, Materials Treatment; Continuum Mechanics and Mechanics of Materials
377	Recursive Estimation and Time-Series Analysis	Peter C. Young	Control; Probability Theory and Stochastic Processes; Complex Networks; Communications Engineering, Networks; Vibration, Dynamical Systems, Control
378	Informatics in Control, Automation and Robotics	Juan Andrade Cetto, Jean-Louis Ferrier, Joaquim Filipe	Control; Robotics and Automation; Artificial Intelligence (incl. Robotics)
379	Informatics in Control Automation and Robotics	Juan Andrade Cetto, Joaquim Filipe, Jean-Louis Ferrier	Control; Robotics and Automation; Artificial Intelligence (incl. Robotics)
380	Nonlinear Control of Vehicles and Robots	Béla Lantos, Lőrinc Márton	Control; Robotics and Automation; Artificial Intelligence (incl. Robotics); Mechatronics
381	System Identification	Karel J. Keesman	Control; Signal, Image and Speech Processing; Systems Theory, Control; Mechatronics
382	Modeling, Diagnostics and Process Control	Józef Korbicz, Jan Maciej Kościelny	Control; Systems Theory, Control
383	Selected Problems of Fractional Systems Theory	Tadeusz Kaczorek	Control; Systems Theory, Control
384	Automatic Control of Atmospheric and Space Flight Vehicles	Ashish Tewari	Control; Systems Theory, Control; Aerospace Technology and Astronautics; Appl.Mathematics/Computational Methods of Engineering; Applications of Mathematics
385	Mono- and Multivariable Control and Estimation	Eric Ostertag	Control; Systems Theory, Control; Appl.Mathematics/Computational Methods of Engineering

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S.No.	Book Title	Author	Subject Classification
386	Distributed Coordination of Multi-agent Networks	Wei Ren, Yongcan Cao	Control; Systems Theory, Control; Artificial Intelligence (incl. Robotics); Robotics and Automation; Communications Engineering, Networks
387	Dynamic Surface Control of Uncertain Nonlinear Systems	Bongsob Song, J. Karl Hedrick	Control; Systems Theory, Control; Automotive Engineering
388	System Engineering and Automation	Javier Fernández de Cañete, Cipriano Galindo, Inmaculada García Moral	Control; Systems Theory, Control; Control, Robotics, Mechatronics
389	Stabilization of Navier–Stokes Flows	Viorel Barbu	Control; Systems Theory, Control; Fluid- and Aerodynamics; Partial Differential Equations; Engineering Fluid Dynamics
390	Stability and Stabilization of Nonlinear Systems	Iason Karafyllis, Zhong-Ping Jiang	Control; Systems Theory, Control; Game Theory/Mathematical Methods; Nonlinear Dynamics
391	Stability and Stabilization of Linear Systems with Saturating Actuators	Sophie Tarbouriech, Germain Garcia, João Manoel Gomes da Silva Jr., Isabelle Queinnec	Control; Systems Theory, Control; Industrial Chemistry/Chemical Engineering; Aerospace Technology and Astronautics; Linear and Multilinear Algebras, Matrix Theory
392	Nonlinear Model Predictive Control	Lars Grüne, Jürgen Pannek	Control; Systems Theory, Control; Industrial Chemistry/Chemical Engineering; Automotive Engineering
393	Domain of Attraction	Graziano Chesi	Control; Systems Theory, Control; Nonlinear Dynamics; Complexity
394	Safe Adaptive Control	Margareta Stefanovic, Michael G. Safonov	Control; Systems Theory, Control; Optimization; Artificial Intelligence (incl. Robotics)
395	Adaptive Control	Ioan Doré Landau, Rogelio Lozano, Mohammed M'Saad, Alireza Karimi	Control; Systems Theory, Control; Signal, Image and Speech Processing
396	Advances in the Theory of Control, Signals and Systems with Physical Modeling	Jean Lévine, Philippe Müllhaupt	Control; Systems Theory, Control; Signal, Image and Speech Processing
397	Symmetries and Semi-invariants in the Analysis of Nonlinear Systems	Laura Menini, Antonio Tornambè	Control; Systems Theory, Control; Vibration, Dynamical Systems, Control
398	Stability Theory of Switched Dynamical Systems	Zhendong Sun, Shuzhi Sam Ge	Control; Systems Theory, Control; Vibration, Dynamical Systems, Control; Probability Theory and Stochastic Processes; Linear and Multilinear Algebras, Matrix Theory
399	Bond Graph Modelling of Engineering Systems	Wolfgang Borutzky	Control; Theoretical and Applied Mechanics; Circuits and Systems; Appl. Mathematics/Computational Methods of Engineering

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S.No.	Book Title	Author	Subject Classification
400	Cooperative Control Design	He Bai, Murat Arcak, John Wen	Control; Vibration, Dynamical Systems, Control; Systems Theory, Control
401	History of Machines for Heritage and Engineering Development	J. M. Portilla, Marco Ceccarelli	Cultural Heritage; History; Architectural History and Theory
402	Data Mining	Yong Yin, Ikou Kaku, Jiafu Tang, JianMing Zhu	Data Mining and Knowledge Discovery; Engineering Economics, Organization, Logistics, Marketing; Operation Research/Decision Theory; Engineering Design
403	Seeking Transformation Through Information Technology	Nagy K. Hanna, Peter T. Knight	Economics/Management Science, general
404	Pedestrian and Evacuation Dynamics	Richard D. Peacock, Erica D. Kuligowski, Jason D. Averill	Electrical Engineering; Behavioural Sciences; Civil Engineering; Automotive Engineering
405	Advances in Electrical Engineering and Electrical Machines	Dehuai Zheng	Electrical Engineering; Power Electronics, Electrical Machines and Networks
406	New Developments and Applications in Sensing Technology	Subhas Chandra Mukhopadhyay, Aimé Lay-Ekuakille, Anton Fuchs	Electrical Engineering; Signal, Image and Speech Processing; Computer Systems Organization and Communication Networks
407	A CMOS Self-Powered Front-End Architecture for Subcutaneous Event-Detector Devices	Jordi Colomer-Farrarons, Pere Lluís Miribel-Català	Electronic Circuits and Devices; Biomedical Engineering; Circuits and Systems; Solid State Physics
408	Advanced Materials for Thermal Management of Electronic Packaging	Xingcun Colin Tong	Electronic Circuits and Devices; Optical and Electronic Materials; Engineering Thermodynamics, Heat and Mass Transfer; Electronics and Microelectronics, Instrumentation
409	MEMS Reliability	Allyson L. Hartzell, Mark G. da Silva, Herbert R. Shea	Electronics and Microelectronics, Instrumentation
410	Strain-Induced Effects in Advanced MOSFETs	Viktor Sverdlov	Electronics and Microelectronics, Instrumentation
411	Generalized Low-Voltage Circuit Techniques for Very High-Speed Time-Interleaved Analog-to-Digital Converters	Sai-Weng Sin, Seng-Pan U, Rui Paulo Martins	Electronics and Microelectronics, Instrumentation; Circuits and Systems
412	Low-Power High-Resolution Analog to Digital Converters	Amir Zjajo, José Pineda de Gyvez	Electronics and Microelectronics, Instrumentation; Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
413	Sensors and Microsystems	Giovanni Neri, Nicola Donato, Arnaldo d'Amico, Corrado Di Natale	Electronics and Microelectronics, Instrumentation; Circuits and Systems; Materials Science, general; Analytical Chemistry
414	Silicon Carbide Microsystems for Harsh Environments	Muthu B.J. Wijesundara, Robert Azevedo	Electronics and Microelectronics, Instrumentation; Circuits and Systems; Nanotechnology and Microengineering

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S.No.	Book Title	Author	Subject Classification
415	MEMS Linear and Nonlinear Statics and Dynamics	Mohammad I. Younis	Electronics and Microelectronics, Instrumentation; Circuits and Systems; Nanotechnology; Statistical Physics, Dynamical Systems and Complexity
416	Electronics and Signal Processing	Wensong Hu	Electronics and Microelectronics, Instrumentation; Electrical Engineering
417	Electrical Power Systems and Computers	Xiaofeng Wan	Electronics and Microelectronics, Instrumentation; Electrical Engineering
418	Communication Systems and Information Technology	Ming Ma	Electronics and Microelectronics, Instrumentation; Electrical Engineering
419	Electrical Engineering and Control	Min Zhu	Electronics and Microelectronics, Instrumentation; Electrical Engineering
420	Low Power and Reliable SRAM Memory Cell and Array Design	Koichiro Ishibashi, Kenichi Osada	Electronics and Microelectronics, Instrumentation; Engineering, general
421	MEMS Materials and Processes Handbook	Reza Ghodssi, Pinyen Lin	Electronics and Microelectronics, Instrumentation; Materials Science, general; Circuits and Systems; Surfaces and Interfaces, Thin Films
422	Broadband Reflectometry for Enhanced Diagnostics and Monitoring Applications	Andrea Cataldo, Egidio De Benedetto, Giuseppe Cannazza	Electronics and Microelectronics, Instrumentation; Microwaves, RF and Optical Engineering; Measurement Science and Instrumentation; Optics, Optoelectronics, Plasmonics and Optical Devices
423	Microelectronic Test Structures for CMOS Technology	Manjul Bhushan, Mark B. Ketchen	Electronics and Microelectronics, Instrumentation; Optical and Electronic Materials; Circuits and Systems
424	The ELFNET Book on Failure Mechanisms, Testing Methods, and Quality Issues of Lead-Free Solder Interconnects	Günter Grossmann, Christian Zardini	Electronics and Microelectronics, Instrumentation; Optical and Electronic Materials; Quality Control, Reliability, Safety and Risk; Characterization and Evaluation of Materials
425	Reliability of Microtechnology	Johan Liu, Olli Salmela, Jussi Sarkka, James E. Morris, Per-Erik Tegehall, Cristina Andersson	Electronics and Microelectronics, Instrumentation; Optical and Electronic Materials; Quality Control, Reliability, Safety and Risk; Nanotechnology and Microengineering
426	Semiconductor Power Devices	Josef Lutz, Heinrich Schlangenotto, Uwe Scheuermann, Rik De Doncker	Electronics and Microelectronics, Instrumentation; Power Electronics, Electrical Machines and Networks; Condensed Matter Physics
427	Solutions on Embedded Systems	Massimo Conti, Simone Orcioni, Natividad Martínez Madrid, Ralf E.D. Seepold	Electronics and Microelectronics, Instrumentation; Processor Architectures

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428	Robotic Welding, Intelligence and Automation	Tzyh-Jong Tarn, Shan-Ben Chen, Gu Fang	Electronics and Microelectronics, Instrumentation; Robotics and Automation; Computational Intelligence; Artificial Intelligence (incl. Robotics)
429	Deterministic Solvers for the Boltzmann Transport Equation	Sung-Min Hong, Anh-Tuan Pham, Christoph Jungemann	Electronics and Microelectronics, Instrumentation; Semiconductors; Optical and Electronic Materials
430	Electrical Engineering and Applied Computing	Sio-long Ao, Len Gelman	Electronics and Microelectronics, Instrumentation; Software Engineering/Programming and Operating Systems; Computer Systems Organization and Communication Networks
431	Energy Economics	Subhes C. Bhattacharyya	Energy Economics; Engineering Economics, Organization, Logistics, Marketing; Industrial Organization; Organization/Planning; Renewable and Green Energy; Energy Policy, Economics and Management
432	Applied Data Analysis and Modeling for Energy Engineers and Scientists	T. Agami Reddy	Energy Efficiency (incl. Buildings); Engineering Thermodynamics, Heat and Mass Transfer; Probability Theory and Stochastic Processes; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences
433	Energy Resources and Systems	Tushar K. Ghosh, Mark A. Prelas	Energy Policy, Economics and Management; Renewable and Green Energy
434	House Rating Schemes	Maria Kordjamshidi	Energy Technology; Building Types and Functions; Sustainable Development; Construction Management; Renewable and Green Energy
435	Conversion of Coal-Fired Power Plants to Cogeneration and Combined-Cycle	Ryszard Bartnik, Zbigniew Buryn	Energy Technology; Fossil Fuels (incl. Carbon Capture); Thermodynamics; Engineering Thermodynamics, Heat and Mass Transfer
436	Iron Phosphate Materials as Cathodes for Lithium Batteries	Pier Paolo Prosini	Energy Technology; Metallic Materials; Electrochemistry; Energy Storage
437	Lithium-Ion Batteries Hazard and Use Assessment	Celina Mikolajczak, Michael Kahn, Kevin White, Richard Thomas Long	Energy Technology; Renewable and Green Energy; Energy Economics; Quality Control, Reliability, Safety and Risk; Safety in Chemistry, Dangerous Goods
438	Orthopedische casuïstiek	K. Nugteren	Energy, general
439	Vademecum permanente nascholing huisartsen	Th. Voorn	Energy, general
440	Tandheelkundige casuïstiek	N. H. J. Creugers	Energy, general
441	Algemene Wet Bijzondere Ziektekosten		Energy, general

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S.No.	Book Title	Author	Subject Classification
442	Memory-Based Logic Synthesis	Tsutomu Sasao	Energy, general; Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design
443	Sound and Signals	Mikio Tohyama	Engineering Acoustics; Acoustics; Signal, Image and Speech Processing
444	Sensors, Instrumentation and Special Topics, Volume 6	Tom Proulx	Engineering Acoustics; Vibration, Dynamical Systems, Control; Aerospace Technology and Astronautics
445	Biological Functions for Information and Communication Technologies	Hidefumi Sawai	Engineering Design; Artificial Intelligence (incl. Robotics); Complexity; Computational Biology/Bioinformatics; Theoretical and Computational Chemistry
446	The Future of Design Methodology	Herbert Birkhofer	Engineering Design; Computer-Aided Engineering (CAD, CAE) and Design
447	Design Computing and Cognition '10	John S. Gero	Engineering Design; Computer-Aided Engineering (CAD, CAE) and Design; Design, general
448	Innovation in Product Design	Monica Bordegoni, Caterina Rizzi	Engineering Design; Computer-Aided Engineering (CAD, CAE) and Design; Innovation/Technology Management
449	Global Product Development	Alain Bernard	Engineering Design; Computer-Aided Engineering (CAD, CAE) and Design; Innovation/Technology Management; Sustainable Development
450	Solid Modelling and CAD Systems	Ian Stroud, Hildegard Nagy	Engineering Design; Computer-Aided Engineering (CAD, CAE) and Design; Simulation and Modeling
451	Design Creativity 2010	Toshiharu Taura, Yukari Nagai	Engineering Design; Design, general; Computer-Aided Engineering (CAD, CAE) and Design
452	Integrated Systems, Design and Technology 2010	Madjid Fathi, Alexander Holland, Fazel Ansari, Christian Weber	Engineering Design; Energy Technology; Computational Intelligence
453	Project Management for the Creation of Organisational Value	Ofer Zwikael, John Smyrk	Engineering Economics, Organization, Logistics, Marketing
454	Multiagent Coordination Enabling Autonomous Logistics	Arne Schuldt	Engineering Economics, Organization, Logistics, Marketing; Artificial Intelligence (incl. Robotics); Business Information Systems
455	Architecting the Internet of Things	Dieter Uckelmann, Mark Harrison, Florian Michahelles	Engineering Economics, Organization, Logistics, Marketing; Computational Intelligence; e-Commerce/e-business; Production/Logistics/Supply Chain Management; Information Systems and Communication Service

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S.No.	Book Title	Author	Subject Classification
456	Logistic Core Operations with SAP	Jens Kappauf, Bernd Lauterbach, Matthias Koch	Engineering Economics, Organization, Logistics, Marketing; Computer Applications; Management of Computing and Information Systems; Production/Logistics/Supply Chain Management; Information Systems Applications (incl.Internet)
457	Functional Thinking for Value Creation	Jürgen Hesselbach, Christoph Herrmann	Engineering Economics, Organization, Logistics, Marketing; Engineering Design; Production/Logistics/Supply Chain Management
458	Demand Driven Supply Chain	Paulo Mendes	Engineering Economics, Organization, Logistics, Marketing; Entrepreneurship; Organization/Planning
459	Location Theory and Decision Analysis	Yupo Chan	Engineering Economics, Organization, Logistics, Marketing; Geographical Information Systems/Cartography; Human Geography; Industrial Organization; Regional/Spatial Science; Landscape/Regional and Urban Planning
460	Service Parts Management	Nezih Altay, Lewis A. Litteral	Engineering Economics, Organization, Logistics, Marketing; Manufacturing, Machines, Tools; Operation Research/Decision Theory
461	Innovative Tools for Business Coalitions in B2B Applications	Pierluigi Argoneto, Paolo Renna	Engineering Economics, Organization, Logistics, Marketing; Organization/Planning; Game Theory/Mathematical Methods; Information Systems Applications (incl.Internet)
462	Managing the Dynamics of New Product Development Processes	Arie Karniel, Yoram Reich	Engineering Economics, Organization, Logistics, Marketing; Organization/Planning; Simulation and Modeling; Engineering Design
463	Dynamics in Logistics	Hans-Jörg Kreowski, Bernd Scholz-Reiter, Klaus-Dieter Thoben	Engineering Economics, Organization, Logistics, Marketing; Production/Logistics/Supply Chain Management
464	Emotional Engineering	Shuichi Fukuda	Engineering Economics, Organization, Logistics, Marketing; Production/Logistics/Supply Chain Management; Computers and Society; Engineering Design
465	Supply Chain Simulation	Francisco Campuzano, Josefa Mula	Engineering Economics, Organization, Logistics, Marketing; Production/Logistics/Supply Chain Management; Simulation and Modeling; Statistical Physics, Dynamical Systems and Complexity

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S.No.	Book Title	Author	Subject Classification
466	Manufacturing Systems Modeling and Analysis	Guy L. Curry, Richard M. Feldman	Engineering Economics, Organization, Logistics, Marketing; Production/Logistics/Supply Chain Management; Simulation and Modeling; Statistical Physics, Dynamical Systems and Complexity
467	Autonomous Cooperation and Control in Logistics	Michael Hülsmann, Bernd Scholz-Reiter, Katja Windt	Engineering Economics, Organization, Logistics, Marketing; Robotics and Automation; Production/Logistics/Supply Chain Management; Control; Innovation/Technology Management
468	Introduction to Discrete Event Simulation and Agent-based Modeling	Theodore T. Allen	Engineering Economics, Organization, Logistics, Marketing; Simulation and Modeling; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences; Operation Research/Decision Theory
469	FREIGHTVISION - Sustainable European Freight Transport 2050	Stephan Helmreich, Hartmut Keller	Engineering Economics, Organization, Logistics, Marketing; Sustainable Development; Regional/Spatial Science
470	Computational Science and High Performance Computing IV	Egon Krause, Yurii Shokin, Michael Resch, Dietmar Kröner, Nina Shokina	Engineering Fluid Dynamics; Appl.Mathematics/Computational Methods of Engineering; Numeric Computing; Fluid- and Aerodynamics
471	Fundamental Medical and Engineering Investigations on Protective Artificial Respiration	Michael Klaas, Edmund Koch, Wolfgang Schröder	Engineering Fluid Dynamics; Biomedical Engineering; Pneumology/Respiratory System; Appl.Mathematics/Computational Methods of Engineering
472	Thermo-Fluid Dynamics of Two-Phase Flow	Mamoru Ishii, Takashi Hibiki	Engineering Fluid Dynamics; Energy Technology; Thermodynamics; Biochemical Engineering; Energy, general
473	Experiments and Numerical Simulations of Diluted Spray Turbulent Combustion	Bart Merci, Dirk Roekaerts, Amsini Sadiki	Engineering Fluid Dynamics; Engineering Thermodynamics, Heat and Mass Transfer; Phase Transitions and Multiphase Systems; Energy Technology; Measurement Science and Instrumentation; Fluid- and Aerodynamics
474	Vapor-Liquid Interfaces, Bubbles and Droplets	Shigeo Fujikawa, Takeru Yano, Masao Watanabe	Engineering Fluid Dynamics; Fluid- and Aerodynamics
475	Near-Field Characterization of Micro/Nano-Scaled Fluid Flows	Kenneth D. Kihm	Engineering Fluid Dynamics; Fluid- and Aerodynamics
476	Cavitation in Non-Newtonian Fluids	Emil Brujan	Engineering Fluid Dynamics; Fluid- and Aerodynamics; Biomedical Engineering; Polymer Sciences; Biophysics and Biological Physics

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S.No.	Book Title	Author	Subject Classification
477	Computational Fluid Dynamics 2010	Alexander Kuzmin	Engineering Fluid Dynamics; Fluid- and Aerodynamics; Computational Science and Engineering
478	Tackling Turbulent Flows in Engineering	Anupam Dewan	Engineering Fluid Dynamics; Fluid- and Aerodynamics; Engineering Thermodynamics, Heat and Mass Transfer; Statistical Physics, Dynamical Systems and Complexity
479	Water Waves and Ship Hydrodynamics	A.J. Hermans	Engineering Fluid Dynamics; Offshore Engineering; Classical Continuum Physics; Mechanical Engineering; Appl.Mathematics/Computational Methods of Engineering; Applications of Mathematics
480	Environmental Wind Engineering and Design of Wind Energy Structures	Charalambos C. Baniotopoulos, Claudio Borri, Theodore Stathopoulos	Engineering Fluid Dynamics; Renewable and Green Energy; Building Construction; Energy Efficiency (incl. Buildings)
481	Handbook of Atomization and Sprays	Nasser Ashgriz	Engineering Fluid Dynamics; Vibration, Dynamical Systems, Control
482	Lattice Boltzmann Method	A. A. Mohamad	Engineering Thermodynamics, Heat and Mass Transfer; Classical Continuum Physics; Engineering Fluid Dynamics; Numerical and Computational Physics
483	Warming to Ecocide	Alan J. Sangster	Engineering Thermodynamics, Heat and Mass Transfer; Climate Change; Energy, general; Energy Technology; Meteorology/Climatology; Thermodynamics
484	Transient Heat Transfer	Donatello Annaratone	Engineering Thermodynamics, Heat and Mass Transfer; Engineering Fluid Dynamics
485	Micro Transport Phenomena During Boiling	Xiaofeng Peng	Engineering Thermodynamics, Heat and Mass Transfer; Engineering Fluid Dynamics; Transportation
486	Handbook of Force Transducers	Dan Mihai Ștefănescu	Engineering Thermodynamics, Heat and Mass Transfer; Mechatronics; Machinery and Machine Elements
487	Fundamentals of Combustion Processes	Sara McAllister, Jyh-Yuan Chen, A. Carlos Fernandez-Pello	Engineering Thermodynamics, Heat and Mass Transfer; Physical Chemistry; Classical Continuum Physics; Engineering Fluid Dynamics
488	Maximum Dissipation Non-Equilibrium Thermodynamics and its Geometric Structure	Henry W. Haslach Jr	Engineering Thermodynamics, Heat and Mass Transfer; Thermodynamics; Biomaterials; Mechanical Engineering
489	The Entropy Principle	André Thess	Engineering Thermodynamics, Heat and Mass Transfer; Thermodynamics; Engineering Fluid Dynamics

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490	Theory of Heat Transfer with Forced Convection Film Flows	Deyi Shang	Engineering Thermodynamics, Heat and Mass Transfer; Thermodynamics; Fluid- and Aerodynamics
491	Advances in Transport Phenomena 2010	Liqui Wang	Engineering Thermodynamics, Heat and Mass Transfer; Thermodynamics; Industrial Chemistry/Chemical Engineering; Mathematical Modeling and Industrial Mathematics; Engineering Fluid Dynamics; Classical Continuum Physics
492	Developing Concepts in Applied Intelligence	Kishan G. Mehrotra, Chilukuri Mohan, Jae C. Oh, Pramod K. Varshney, Moonis Ali	Engineering, general; Artificial Intelligence (incl. Robotics)
493	Seeking Chances	Emanuele Bardone	Engineering, general; Cognitive Psychology; Artificial Intelligence (incl. Robotics)
494	Fractal Analysis in Machining	Prasanta Sahoo, Tapan Barman, João Paulo Davim	Engineering, general; Continuum Mechanics and Mechanics of Materials; Structural Materials
495	Research in Interactive Design Vol. 3	Xavier Fischer, Jean-Pierre Nadeau	Engineering, general; Engineering Design; Appl. Mathematics/Computational Methods of Engineering; Operating Procedures, Materials Treatment; Manufacturing, Machines, Tools
496	Multicriteria Analysis and LCA Techniques	Lucia Recchia, Paolo Boncinelli, Enrico Cini, Marco Vieri, Francesco Garbati Pegna, Daniele Sarri	Engineering, general; Engineering Economics, Organization, Logistics, Marketing; Energy Economics; Sustainable Development; Agricultural Economics
497	Embedded Systems Design Based on Formal Models of Computation	Ivan Radojevic, Zoran Salcic	Engineering, general; Special Purpose and Application-Based Systems
498	Knowledge and the Family Business	Manlio Del Giudice, Maria Rosaria Della Peruta, Elias G. Carayannis	Entrepreneurship
499	Wetland Systems	Miklas Scholz	Environmental Engineering/Biotechnology; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution; Geoenvironment, Foundations, Hydraulics
500	Methodologies and Techniques for Advanced Maintenance	Lorenzo Fedele	Facility Management; Building Repair and Maintenance; Communications Engineering, Networks
501	Greening Airports	Milan Janić	Facility Management; Construction Management; Sustainable Development; Renewable and Green Energy; Energy Efficiency (incl. Buildings)
502	Reduced-Order Modelling for Flow Control	Bernd R. Noack, Marek Morzyński, Gilead Tadmor	Fluid- and Aerodynamics; Mathematical Modeling and Industrial Mathematics; Engineering Fluid Dynamics; Control

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503	Behavior of Pipe Piles in Sand	Magued Iskander	Geoengineering, Foundations, Hydraulics; Geographical Information Systems/Cartography; Theoretical and Applied Mechanics; Machinery and Machine Elements
504	Multiscale and Multiphysics Processes in Geomechanics	Ronaldo I. Borja	Geoengineering, Foundations, Hydraulics; Geotechnical Engineering & Applied Earth Sciences; Geophysics and Environmental Physics
505	Transdisciplinary Knowledge Production in Architecture and Urbanism	Isabelle Doucet, Nel Janssens	Human Geography; Landscape/Regional and Urban Planning; Regional and Cultural Studies
506	Plastics End Use Applications	Donald V. Rosato	Industrial and Production Engineering; Characterization and Evaluation of Materials; Manufacturing, Machines, Tools
507	Membrane Reactors for Hydrogen Production Processes	Marcello De Falco, Luigi Marrelli, Gaetano Iaquaniello	Industrial and Production Engineering; Industrial Chemistry/Chemical Engineering
508	Flexibility Measurement in Production Systems	Sven Rogalski	Industrial and Production Engineering; Information Systems Applications (incl.Internet); Business Information Systems
509	Dictionary of Production Engineering/Wörterbuch der Fertigungstechnik/Dictionnaire des Techniques de Production Mechanique Vol IV	C.I.R.P	Industrial and Production Engineering; Manufacturing, Machines, Tools
510	Rapid One-of-a-kind Product Development	Shane (S.Q.) Xie, Yiliu Tu	Industrial and Production Engineering; Manufacturing, Machines, Tools; Computer-Aided Engineering (CAD, CAE) and Design
511	Manufacturing Process Design and Costing	Simmy Grewal	Industrial and Production Engineering; Manufacturing, Machines, Tools; Engineering Economics, Organization, Logistics, Marketing; Industrial Organization; Organization/Planning
512	Product Lifecycle Management	John Stark	Industrial and Production Engineering; Operation Research/Decision Theory; Engineering Design
513	Managing Cooperation in Supply Network Structures and Small or Medium-sized Enterprises	Agostino Villa	Industrial and Production Engineering; Organization/Planning; Engineering Economics, Organization, Logistics, Marketing; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences
514	Stereolithography	Paulo Jorge Bártolo	Industrial and Production Engineering; Production/Logistics/Supply Chain Management; Engineering Design; Materials Science, general

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515	Glocalized Solutions for Sustainability in Manufacturing	Jürgen Hesselbach, Christoph Herrmann	Industrial and Production Engineering; Sustainable Development; Energy Efficiency (incl. Buildings); Energy Economics; Engineering Design
516	Smart Membrane Materials and Systems	Liang-Yin Chu	Industrial Chemistry/Chemical Engineering; Biomaterials; Pharmaceutical Sciences/Technology; Polymer Sciences
517	Designing a New Class of Distributed Systems	Rao Mikkilineni	Information Systems and Communication Service; Circuits and Systems
518	Collaborative Design in Virtual Environments	Xiangyu Wang, Jerry Jen-Hung Tsai	Information Systems Applications (incl. Internet); Building Construction; Interaction Design; Computer-Aided Engineering (CAD, CAE) and Design; Computers and Education
519	Risk Navigation Strategies for Major Capital Projects	Asbjørn Rolstadås, Per Willy Hetland, George Farage Jergeas, Richard E. Westney	Innovation/Technology Management; Quality Control, Reliability, Safety and Risk; Organization/Planning; Management/Business for Professionals
520	Kinematics of Machinery Through HyperWorks	J.S. Rao	Machinery and Machine Elements; Theoretical and Applied Mechanics; Mechanics
521	Ultrasonic Motors	Chunsheng Zhao	Machinery and Machine Elements; Vibration, Dynamical Systems, Control; Electronics and Microelectronics, Instrumentation
522	Rotating Machinery, Structural Health Monitoring, Shock and Vibration, Volume 5	Tom Proulx	Machinery and Machine Elements; Vibration, Dynamical Systems, Control; Quality Control, Reliability, Safety and Risk
523	Split Hopkinson (Kolsky) Bar	Weinong Chen, Bo Song	Manufacturing, Machines, Tools; Continuum Mechanics and Mechanics of Materials; Mechanical Engineering
524	Digital Factory for Human-oriented Production Systems	Luca Canetta, Claudia Redaelli, Myrna Flores	Manufacturing, Machines, Tools; Engineering Design; Engineering Economics, Organization, Logistics, Marketing
525	Improving Complex Systems Today	Daniel D. Frey, Shuichi Fukuda, Georg Rock	Manufacturing, Machines, Tools; Engineering Design; Engineering Economics, Organization, Logistics, Marketing; Automotive Engineering; Quality Control, Reliability, Safety and Risk; Industrial and Production Engineering
526	Advances in Sustainable Manufacturing	Günther Seliger, Marwan M.K. Khraisheh, I.S. Jawahir	Manufacturing, Machines, Tools; Environmental Economics; Sustainable Development; Renewable and Green Energy
527	Complex Engineering Service Systems	Irene Ng, Glenn Parry, Peter Wild, Duncan McFarlane, Paul Tasker	Manufacturing, Machines, Tools; Innovation/Technology Management; Organization/Planning; Engineering Economics, Organization, Logistics, Marketing

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528	Machining of Hard Materials	J. Paulo Davim	Manufacturing, Machines, Tools; Machinery and Machine Elements; Tribology, Corrosion and Coatings; Operating Procedures, Materials Treatment; Continuum Mechanics and Mechanics of Materials
529	Advanced Modeling and Optimization of Manufacturing Processes	R. Venkata Rao	Manufacturing, Machines, Tools; Mathematical Modeling and Industrial Mathematics; Simulation and Modeling
530	Information Modeling for Interoperable Dimensional Metrology	Yaoyao (Fiona) Zhao, Robert Brown, Thomas R. Kramer, Xun Xu	Manufacturing, Machines, Tools; Measurement Science and Instrumentation; Computer-Aided Engineering (CAD, CAE) and Design; Mathematical Modeling and Industrial Mathematics
531	Distributed Large-Scale Dimensional Metrology	Fiorenzo Franceschini, Maurizio Galetto, Domenico Maisano, Luca Mastrogiacomo, Barbara Pralio	Manufacturing, Machines, Tools; Measurement Science and Instrumentation; Mathematical Modeling and Industrial Mathematics; Computer-Aided Engineering (CAD, CAE) and Design
532	Mass Customization	Flavio S. Fogliatto, Giovani J. C. da Silveira	Manufacturing, Machines, Tools; Operation Research/Decision Theory; Industrial Organization
533	One-of-a-Kind Production	Yiliu Tu, Paul Dean	Manufacturing, Machines, Tools; Production/Logistics/Supply Chain Management; Operating Procedures, Materials Treatment
534	Multi-objective Evolutionary Optimisation for Product Design and Manufacturing	Lihui Wang, Amos H. C. Ng, Kalyanmoy Deb	Manufacturing, Machines, Tools; Simulation and Modeling; Computer-Aided Engineering (CAD, CAE) and Design
535	Virtual Manufacturing	Wasim Ahmed Khan, Abdul Raouf, Kai Cheng	Manufacturing, Machines, Tools; User Interfaces and Human Computer Interaction; Industrial and Production Engineering
536	Damage Mechanics and Micromechanics of Localized Fracture Phenomena in Inelastic Solids	George Z. Voyiadjis	Materials Science, general; Engineering Design; Physics, general; Mathematics, general
537	Spatio-Temporal Modeling of Nonlinear Distributed Parameter Systems	Han-Xiong Li, Chenkun Qi	Mathematical Modeling and Industrial Mathematics; Control; Industrial Chemistry/Chemical Engineering; Simulation and Modeling
538	Advanced Methods of Solid Oxide Fuel Cell Modeling	Jarosław Milewski, Konrad Świrski, Massimo Santarelli, Pierluigi Leone	Mathematical Modeling and Industrial Mathematics; Industrial Chemistry/Chemical Engineering; Power Electronics, Electrical Machines and Networks; Artificial Intelligence (incl. Robotics)

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540	Tractable Models of Solid Mechanics	Leonid I. Manevitch, Oleg V. Gendelman	Mechanical Engineering; Computational Intelligence; Mechanics; Statistical Physics, Dynamical Systems and Complexity; Appl.Mathematics/Computational Methods of Engineering
541	History of Rotating Machinery Dynamics	J. S. Rao	Mechanical Engineering; Machinery and Machine Elements; Structural Mechanics
542	Technology Developments: the Role of Mechanism and Machine Science and IFToMM	Marco Ceccarelli	Mechanical Engineering; Theoretical and Applied Mechanics; Industrial and Production Engineering; Appl.Mathematics/Computational Methods of Engineering; Energy Technology; Biomedical Engineering
543	Intelligent Control and Computer Engineering	Sio-long Ao, Oscar Castillo, Xu Huang	Mechatronics; Artificial Intelligence (incl. Robotics); Control, Robotics, Mechatronics
544	Reconfigurable RF Power Amplifiers on Silicon for Wireless Handsets	Laurent Leyssenne, Eric Kerhervé, Yann Deval	Microwaves, RF and Optical Engineering; Electronics and Microelectronics, Instrumentation; Circuits and Systems; Special Purpose and Application-Based Systems
545	Thin Impedance Vibrators	Mikhail V. Nesterenko, Victor A. Katrich, Yuriy M. Penkin, Victor M. Dakhov, Sergey L. Berdnik	Microwaves, RF and Optical Engineering; Optics and Electrodynamics
546	Electromagnetics and Network Theory and their Microwave Technology Applications	Stefan Lindenmeier, Robert Weigel	Microwaves, RF and Optical Engineering; Optics and Electrodynamics; Computational Science and Engineering
547	Near-Space Remote Sensing	Wen-Qin Wang	Microwaves, RF and Optical Engineering; Signal, Image and Speech Processing; Aerospace Technology and Astronautics; Monitoring/Environmental Analysis
548	Geolocation of RF Signals	Ilir Progri	Microwaves, RF and Optical Engineering; Signal, Image and Speech Processing; Communications Engineering, Networks
549	Nanotechnology Enabled In situ Sensors for Monitoring Health	Thomas J. Webster	Nanotechnology and Microengineering; Biomedical Engineering; Biomaterials
550	Regular Nanofabrics in Emerging Technologies	M. Haykel Ben Jamaa	Nanotechnology and Microengineering; Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design; Logic Design; Nanoscale Science and Technology; Semiconductors

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551	Nanoelectronic Circuit Design	Niraj K. Jha, Deming Chen	Nanotechnology and Microengineering; Circuits and Systems; Electronics and Microelectronics, Instrumentation; Electrical Engineering
552	Microsystems Dynamics	Vytautas Ostasevicius, Rolanas Dauksevičius	Nanotechnology and Microengineering; Engineering Design; Structural Mechanics; Computational Intelligence; Continuum Mechanics and Mechanics of Materials
553	Mechanics Over Micro and Nano Scales	Suman Chakraborty	Nanotechnology and Microengineering; Engineering Fluid Dynamics; Mechanics; Biomaterials
554	MEMS and Nanotechnology, Volume 4	Tom Proulx	Nanotechnology and Microengineering; Mechatronics; Nanotechnology
555	Electrokinetics and Electrohydrodynamics in Microsystems	Antonio Ramos	Nanotechnology and Microengineering; Nanoscale Science and Technology; Biotechnology; Industrial Chemistry/Chemical Engineering
556	Nanostructured Materials for Engineering Applications	Carlos Pérez Bergmann, Mônica Jung Andrade	Nanotechnology and Microengineering; Nanotechnology; Industrial and Production Engineering; Optical and Electronic Materials; Tribology, Corrosion and Coatings; Biomaterials
557	Nanotribology and Nanomechanics I	Bharat Bhushan	Nanotechnology and Microengineering; Nanotechnology; Nanoscale Science and Technology
558	Nanotribology and Nanomechanics II	Bharat Bhushan	Nanotechnology and Microengineering; Nanotechnology; Nanoscale Science and Technology; Tribology, Corrosion and Coatings; Surfaces and Interfaces, Thin Films
559	Tip-Based Nanofabrication	Ampere A. Tseng	Nanotechnology and Microengineering; Nanotechnology; Optical and Electronic Materials
560	Introduction to Microsystem Design	Werner Karl Schomburg	Nanotechnology and Microengineering; Optical and Electronic Materials; Applied and Technical Physics; Circuits and Systems
561	IUTAM Symposium on Nonlinear Stochastic Dynamics and Control	W. Q. Zhu, Y. K. Lin, G. Q. Cai	Nonlinear Dynamics; Vibration, Dynamical Systems, Control; Systems Theory, Control; Mechanics; Statistical Physics, Dynamical Systems and Complexity
562	Advances in Light Water Reactor Technologies	Takehiko Saito, Junichi Yamashita, Yoshiaki Oka, Yuki Ishiwatari	Nuclear Engineering; Energy Technology; Nuclear Physics, Heavy Ions, Hadrons
563	Frontiers in Fusion Research	Mitsuru Kikuchi	Nuclear Engineering; Nuclear Fusion; Renewable and Green Energy

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564	Safety of VVER-440 Reactors	Vladimír Slugeň	Nuclear Engineering; Quality Control, Reliability, Safety and Risk; Engineering Design; Operating Procedures, Materials Treatment; Characterization and Evaluation of Materials
565	Tailored Light 2	Reinhart Poprawe	Operating Procedures, Materials Treatment; Characterization and Evaluation of Materials; Engineering, general; Mechanical Engineering
566	Manufacturing Processes 1	Fritz Klocke	Operating Procedures, Materials Treatment; Characterization and Evaluation of Materials; Industrial and Production Engineering; Manufacturing, Machines, Tools
567	Machining with Abrasives	Mark J. Jackson, J. Paulo Davim	Operating Procedures, Materials Treatment; Electronics and Microelectronics, Instrumentation; Mechanical Engineering
568	Injection Molding	Rong Zheng, Roger I. Tanner, Xi-Jun Fan	Operating Procedures, Materials Treatment; Industrial Chemistry/Chemical Engineering; Structural Materials; Polymer Sciences; Engineering Fluid Dynamics
569	Handbook of Adhesion Technology	Lucas F. M. da Silva, Andreas Öchsner, Robert D. Adams	Operating Procedures, Materials Treatment; Materials Science, general; Polymer Sciences; Engineering Design; Continuum Mechanics and Mechanics of Materials
570	Terahertz Technology	Ali Rostami, Hassan Rasooli, Hamed Baghban	Optical and Electronic Materials; Microwaves, RF and Optical Engineering; Optics, Optoelectronics, Plasmonics and Optical Devices
571	Electronique et optoélectronique organiques	André Moliton	Optics, Optoelectronics, Plasmonics and Optical Devices; Optics and Electrodynamics; Electronics and Microelectronics, Instrumentation; Microwaves, RF and Optical Engineering; Engineering, general
572	Neutrinos in Particle Physics, Astronomy and Cosmology	Zhi-Zhong Xing, Shun Zhou	Particle and Nuclear Physics; Astronomy, Astrophysics and Cosmology; Nuclear Physics, Heavy Ions, Hadrons
573	Experimental Plant Virology	Jishuang Chen	Plant Pathology; Plant Genetics & Genomics; Agriculture
574	Cogeneration Fuel Cell-Sorption Air Conditioning Systems	I. Pilatowsky, R.J. Romero, C.A. Isaza, S.A. Gamboa, P.J. Sebastian, W. Rivera	Power Electronics, Electrical Machines and Networks
575	Electric Power System Planning	Hossein Seifi, Mohammad Sadegh Sepasian	Power Electronics, Electrical Machines and Networks
576	Electronic Tap-changer for Distribution Transformers	Jawad Faiz, Behzad Siahkollah	Power Electronics, Electrical Machines and Networks

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577	Condition Monitoring and Assessment of Power Transformers Using Computational Intelligence	W.H. Tang, Q.H. Wu	Power Electronics, Electrical Machines and Networks; Computational Intelligence; Quality Control, Reliability, Safety and Risk; Simulation and Modeling
578	Advanced Electrical Drives	Rik De Doncker, Duco W.J. Pulle, André Veltman	Power Electronics, Electrical Machines and Networks; Control, Robotics, Mechatronics
579	Electric Power Quality	Surajit Chattopadhyay, Madhuchhanda Mitra, Samarjit Sengupta	Power Electronics, Electrical Machines and Networks; Energy Technology
580	Power Grid Complexity	Shengwei Mei, Xuemin Zhang, Ming Cao	Power Electronics, Electrical Machines and Networks; Physics, general; Energy Systems
581	Transmission Grid Security	Liisa Haarla, Mikko Koskinen, Ritva Hirvonen, Pierre-Etienne Labeau	Power Electronics, Electrical Machines and Networks; Quality Control, Reliability, Safety and Risk
582	Assessment of Power System Reliability	Marko Čepin	Power Electronics, Electrical Machines and Networks; Quality Control, Reliability, Safety and Risk; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences; Energy Economics; Energy Systems
583	Low Voltage Power MOSFETs	Jacek Korec	Power Electronics, Electrical Machines and Networks; Solid State Physics; Electronics and Microelectronics, Instrumentation
584	Thermophotovoltaics	Thomas Bauer	Power Electronics, Electrical Machines and Networks; Thermodynamics; Renewable and Green Energy; Engineering, general
585	Portfolio Choice Problems	Nicolas Chapados	Probability and Statistics in Computer Science; Statistics for Business/Economics/Mathematical Finance/Insurance; Probability Theory and Stochastic Processes
586	Transforming Government and Building the Information Society	Nagy K. Hanna	Public Finance & Economics; Development Economics; Economic Growth
587	FORMS/FORMAT 2010	Eckehard Schnieder, Geza Tarnai	Quality Control, Reliability, Safety and Risk; Automotive Engineering; Simulation and Modeling; Complexity
588	Vulnerable Systems	Wolfgang Kröger, Enrico Zio	Quality Control, Reliability, Safety and Risk; Complexity; Power Electronics, Electrical Machines and Networks; Communications Engineering, Networks

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590	Warranty Data Collection and Analysis	Wallace R. Blischke, M. Rezaul Karim, D. N. Prabhakar Murthy	Quality Control, Reliability, Safety and Risk; Engineering Economics, Organization, Logistics, Marketing; Industrial Organization
591	Towards Estimating Entrainment Fraction for Dust Layers	Erdem A. Ural	Quality Control, Reliability, Safety and Risk; Facility Management; Industrial and Production Engineering; Safety in Chemistry, Dangerous Goods; Surfaces and Interfaces, Thin Films
592	Reliability and Safety of Complex Technical Systems and Processes	Krzysztof Kolowrocki, Joanna Soszyńska-Budny	Quality Control, Reliability, Safety and Risk; Facility Management; Probability Theory and Stochastic Processes; Mathematical Modeling and Industrial Mathematics
593	Replacement Models with Minimal Repair	Lotfi Tadj, M.-Salah Ouali, Soumaya Yacout, Daoud Ait-Kadi	Quality Control, Reliability, Safety and Risk; Mathematical Modeling and Industrial Mathematics; Industrial Organization
594	Simulator-based Human Factors Studies Across 25 Years	Ann Britt Skjerve, Andreas Bye	Quality Control, Reliability, Safety and Risk; Nuclear Engineering; Special Purpose and Application-Based Systems
595	Reliability Engineering	Massimo Lazzaroni, Loredana Cristaldi, Lorenzo Peretto, Paola Rinaldi, Marcantonio Catelani	Quality Control, Reliability, Safety and Risk; Organization/Planning; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences; Communications Engineering, Networks; R & D/Technology Policy
596	Dependability of Networked Computer-based Systems	Ajit Kumar Verma, Srividya Ajit, Manoj Kumar	Quality Control, Reliability, Safety and Risk; Performance and Reliability; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences; Communications Engineering, Networks; System Performance and Evaluation; Models and Principles
597	Innovations in Power Systems Reliability	George Anders, Alfredo Vaccaro	Quality Control, Reliability, Safety and Risk; Power Electronics, Electrical Machines and Networks

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598	Stochastic Processes	Toshio Nakagawa	Quality Control, Reliability, Safety and Risk; Probability Theory and Stochastic Processes; Operation Research/Decision Theory
599	Safety and Risk Modeling and Its Applications	Hoang Pham	Quality Control, Reliability, Safety and Risk; Simulation and Modeling; Engineering Design
600	Applied Nonparametric Statistics in Reliability	M. Luz Gámiz, K. B. Kulasekera, Nikolaos Limnios, Bo Henry Lindqvist	Quality Control, Reliability, Safety and Risk; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences
601	Bayesian Inference for Probabilistic Risk Assessment	Dana Kelly, Curtis Smith	Quality Control, Reliability, Safety and Risk; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences
602	Fatigue and Fracture Reliability Engineering	J.J. Xiong, R.A. Shenoi	Quality Control, Reliability, Safety and Risk; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences; Metallic Materials; Machinery and Machine Elements; Engineering Design
603	The Impacts of Research and Development Expenditures	John J. Wetter	R & D/Technology Policy; Economic Policy; Economic Growth
604	Managing Science	Frederick Betz	R & D/Technology Policy; Methodology and the History of Economic Thought; Innovation/Technology Management
605	Second-Generation High-Temperature Superconducting Coils and Their Applications for Energy Storage	Weijia Yuan	Renewable and Green Energy
606	Solar Energy in the Winemaking Industry	Mervyn Smyth, James Russell, Tony Milanowski	Renewable and Green Energy; Agriculture; Sustainable Development; Food Science; Renewable and Green Energy
607	Green IT: Technologies and Applications	Jae H. Kim, Myung J. Lee	Renewable and Green Energy; Appl.Mathematics/Computational Methods of Engineering; Renewable and Green Energy; Computer Applications
608	Zero-Carbon Energy Kyoto 2010	Takeshi Yao	Renewable and Green Energy; Climate Change; Environmental Physics; Environmental Engineering/Biotechnology
609	Rise and Fall of the Carbon Civilisation	Patrick Moriarty, Damon Honnery	Renewable and Green Energy; Climate Change; Social Policy; Nuclear Engineering; Geoengineering, Foundations, Hydraulics; Renewable and Green Energy

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610	Solid Biofuels for Energy	Panagiotis Grammelis	Renewable and Green Energy; Energy Technology; Biochemical Engineering; Renewable and Green Energy
611	Hydrogen Storage Materials	Darren P. Broom	Renewable and Green Energy; Energy Technology; Energy Storage
612	Solar Lighting	Ramchandra Pode, Boucar Diouf	Renewable and Green Energy; Engineering Economics, Organization, Logistics, Marketing; Sustainable Development; Renewable and Green Energy
613	Rational Exuberance for Renewable Energy	Srinivasan Sunderasan	Renewable and Green Energy; Environmental Economics; Energy Economics; Renewable and Green Energy
614	Hybrid Hydrogen Systems	Said Al-Hallaj, Kristofer Kiszynski	Renewable and Green Energy; Environmental Economics; Environment, general; Materials Science, general; Energy Systems
615	Photovoltaic Industrial Systems	Elena Papadopoulou	Renewable and Green Energy; Industrial Pollution Prevention; Innovation/Technology Management
616	Dynamic Management of Sustainable Development	Zigurds Krishans, Anna Mutule, Yuri Merkuryev, Irina Oleinikova	Renewable and Green Energy; Mathematical Modeling and Industrial Mathematics; Special Purpose and Application-Based Systems; Sustainable Development; Renewable and Green Energy; Innovation/Technology Management
617	Introduction to Hydro Energy Systems	Hermann-Josef Wagner, Jyotirmay Mathur	Renewable and Green Energy; Mechanical Engineering; Civil Engineering; Electrical Engineering; Energy Economics
618	Energy Efficiency and Renewable Energy Through Nanotechnology	Ling Zang	Renewable and Green Energy; Nanotechnology and Microengineering; Renewable and Green Energy
619	Renewable Energies in Germany's Electricity Market	Elke Bruns, Dörte Ohlhorst, Bernd Wenzel, Johann Köppel	Renewable and Green Energy; Political Science, general; Environment, general; Nature Conservation; Environmental Law/Policy/Ecojustice; Climate Change
620	Power Conversion of Renewable Energy Systems	Ewald F. Fuchs, Mohammad A.S. Masoum	Renewable and Green Energy; Power Electronics, Electrical Machines and Networks; Energy Efficiency (incl. Buildings)
621	Green Energy	Xianguo Li	Renewable and Green Energy; Power Electronics, Electrical Machines and Networks; Energy Technology; Industrial Pollution Prevention
622	Small Wind Turbines	David Wood	Renewable and Green Energy; Power Electronics, Electrical Machines and Networks; Machinery and Machine Elements; Engineering Fluid Dynamics

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623	Dielectric Spectroscopy in Biodiesel Production and Characterization	Silvia Daniela Romano, Patricio Aníbal Sorichetti	Renewable and Green Energy; Renewable and Green Energy
624	Gas Hydrates	Carlo Giavarini, Keith Hester	Renewable and Green Energy; Renewable and Green Energy; Sustainable Development; Oceanography
625	Sustainability in Energy and Buildings	Robert J. Howlett, Lakhmi C. Jain, Shaun H. Lee	Renewable and Green Energy; Sustainable Development; Civil Engineering; Operating Procedures, Materials Treatment; Monitoring/Environmental Analysis; Energy Efficiency (incl. Buildings)
626	Syngas from Waste	Luis Puigjaner	Renewable and Green Energy; Waste Management/Waste Technology; Biotechnology; Renewable and Green Energy
627	Robotic Systems for Handling and Assembly	Daniel Schütz, Friedrich M. Wahl	Robotics and Automation; Artificial Intelligence (incl. Robotics)
628	Algorithmic Foundations of Robotics IX	David Hsu, Volkan Isler, Jean-Claude Latombe, Ming C. Lin	Robotics and Automation; Artificial Intelligence (incl. Robotics)
629	Robotics Research	Cédric Pradalier, Roland Siegwart, Gerhard Hirzinger	Robotics and Automation; Artificial Intelligence (incl. Robotics)
630	Random Finite Sets for Robot Mapping and SLAM	John Mullane, Ba-Ngu Vo, Martin Adams, Ba-Tuong Vo	Robotics and Automation; Artificial Intelligence (incl. Robotics)
631	Robotic Sailing	Alexander Schlaefer, Ole Blaurock	Robotics and Automation; Artificial Intelligence (incl. Robotics)
632	Robotics, Vision and Control	Peter Corke	Robotics and Automation; Artificial Intelligence (incl. Robotics); Image Processing and Computer Vision; Signal, Image and Speech Processing; Machinery and Machine Elements; Cognitive Psychology
633	Musical Robots and Interactive Multimodal Systems	Jorge Solis, Kia Ng	Robotics and Automation; Artificial Intelligence (incl. Robotics); Music
634	Exoskeletons in Rehabilitation Robotics	Eduardo Rocon, José L. Pons	Robotics and Automation; Artificial Intelligence (incl. Robotics); Rehabilitation
635	A Roadmap for Cognitive Development in Humanoid Robots	David Vernon, Claes Hofsten, Luciano Fadiga	Robotics and Automation; Computational Intelligence; Artificial Intelligence (incl. Robotics); Cognitive Psychology; Neurosciences
636	Interfacing PIC Microcontrollers to Peripheral Devices	Bohdan Borowik	Robotics and Automation; Control, Robotics, Mechatronics; Electronics and Microelectronics, Instrumentation

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638	The Sound of Silence	Burkhard Vogel	Signal,Image and Speech Processing; Acoustics; Circuits and Systems; Electronics and Microelectronics, Instrumentation
639	Robust Speech Recognition of Uncertain or Missing Data	Dorothea Kolossa, Reinhold Häb-Umbach	Signal,Image and Speech Processing; Artificial Intelligence (incl. Robotics); Computational Linguistics
640	New Developments in Sensing Technology for Structural Health Monitoring	Subhas Chandra Mukhopadhyay	Signal,Image and Speech Processing; Biomedical Engineering; Electrical Engineering
641	Self-Learning Speaker Identification	Tobias Herbig, Franz Gerl, Wolfgang Minker	Signal,Image and Speech Processing; Biometrics; Communications Engineering, Networks; User Interfaces and Human Computer Interaction
642	Speech Spectrum Analysis	Sean A. Fulop	Signal,Image and Speech Processing; Biometrics; Computational Linguistics; User Interfaces and Human Computer Interaction
643	Digital Signal Processing	Peter O'Shea, Amin Z. Sadik, Zahir M. Hussain	Signal,Image and Speech Processing; Circuits and Systems
644	Synthesis of Computational Structures for Analog Signal Processing	Cosmin Radu Popa	Signal,Image and Speech Processing; Circuits and Systems; Appl.Mathematics/Computational Methods of Engineering
645	Fundamentals in Information Theory and Coding	Monica Borda	Signal,Image and Speech Processing; Coding and Information Theory; Bioinformatics
646	Optimal Time-Domain Noise Reduction Filters	Jacob Benesty, Jingdong Chen	Signal,Image and Speech Processing; Coding and Information Theory; Communications Engineering, Networks
647	OFDM	Hermann Rohling	Signal,Image and Speech Processing; Coding and Information Theory; Special Purpose and Application-Based Systems
648	Information Security for Automatic Speaker Identification	Fathi E. Abd El-Samie	Signal,Image and Speech Processing; Communications Engineering, Networks
649	Location, Localization, and Localizability	Yunhao Liu, Zheng Yang	Signal,Image and Speech Processing; Communications Engineering, Networks; Information Systems and Communication Service

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651	Next Generation Intelligent Environments	Wolfgang Minker, Tobias Heinroth	Signal,Image and Speech Processing; Communications Engineering, Networks; User Interfaces and Human Computer Interaction; Energy, general
652	Digital Filters	Dietrich Schlichthärle	Signal,Image and Speech Processing; Control, Robotics, Mechatronics
653	Wavelets	Robert X Gao, Ruqiang Yan	Signal,Image and Speech Processing; Control, Robotics, Mechatronics; Manufacturing, Machines, Tools; Quality Control, Reliability, Safety and Risk
654	Digital Signal Processing in Power System Protection and Control	Waldemar Rebizant, Janusz Szafran, Andrzej Wiszniewski	Signal,Image and Speech Processing; Energy Systems; Artificial Intelligence (incl. Robotics); Power Electronics, Electrical Machines and Networks; Algorithms
655	Unified Signal Theory	Gianfranco Cariolaro	Signal,Image and Speech Processing; Fourier Analysis; Image Processing and Computer Vision; Communications Engineering, Networks; Control
656	Variational and Level Set Methods in Image Segmentation	Amar Mitiche, Ismail Ben Ayed	Signal,Image and Speech Processing; Image Processing and Computer Vision
657	Video Segmentation and Its Applications	King Ngi Ngan, Hongliang Li	Signal,Image and Speech Processing; Image Processing and Computer Vision; Computer Imaging, Vision, Pattern Recognition and Graphics
658	Machine Vision Beyond Visible Spectrum	Riad Hammoud, Guoliang Fan, Robert W. McMillan, Katsushi Ikeuchi	Signal,Image and Speech Processing; Image Processing and Computer Vision; Control, Robotics, Mechatronics
659	Statistical Pronunciation Modeling for Non-Native Speech Processing	Rainer E. Gruhn, Wolfgang Minker, Satoshi Nakamura	Signal,Image and Speech Processing; Language Translation and Linguistics; Phonology; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences
660	Contemporary Methods for Speech Parameterization	Todor Ganchev	Signal,Image and Speech Processing; Language Translation and Linguistics; User Interfaces and Human Computer Interaction

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661	Advances in Commercial Deployment of Spoken Dialog Systems	David Suendermann	Signal,Image and Speech Processing; Language Translation and Linguistics; User Interfaces and Human Computer Interaction
662	Proceedings of the Paralinguistic Information and its Integration in Spoken Dialogue Systems Workshop	Ramón López-Cózar Delgado, Tetsunori Kobayashi	Signal,Image and Speech Processing; Language Translation and Linguistics; User Interfaces and Human Computer Interaction
663	Numerical Linear Algebra in Signals, Systems and Control	Paul Van Dooren, Shankar P. Bhattacharyya, Raymond H. Chan, Vadim Olshevsky, Aurobinda Routray	Signal,Image and Speech Processing; Linear and Multilinear Algebras, Matrix Theory; Control, Robotics, Mechatronics
664	Optical Remote Sensing	Saurabh Prasad, Lori M. Bruce, Jocelyn Chanussot	Signal,Image and Speech Processing; Pattern Recognition; Microwaves, RF and Optical Engineering
665	Electronics for Guitarists	Denton J. Dailey	Signal,Image and Speech Processing; Popular Science in Mathematics/Computer Science/Natural Science/Technology; Circuits and Systems
666	Algorithm-Architecture Matching for Signal and Image Processing	Guy Gogniat, Dragomir Milojevic, Adam Morawiec, Ahmet Erdogan	Signal,Image and Speech Processing; Processor Architectures; Algorithms
667	Integral and Diagnostic Intrusive Prediction of Speech Quality	Nicolas Côté	Signal,Image and Speech Processing; User Interfaces and Human Computer Interaction; Communications Engineering, Networks; Information and Communication, Circuits
668	Speech Processing and Soft Computing	Sid-Ahmed Selouani	Signal,Image and Speech Processing; User Interfaces and Human Computer Interaction; Computational Intelligence; Energy, general
669	Adaptive Multimodal Interactive Systems	Matthias Bezold, Wolfgang Minker	Signal,Image and Speech Processing; User Interfaces and Human Computer Interaction; Computational Linguistics
670	A Perspective on Stereophonic Acoustic Echo Cancellation	Jacob Benesty, Constantin Paleologu, Tomas Gänsler, Silviu Ciochină	Signal,Image and Speech Processing; User Interfaces and Human Computer Interaction; Fourier Analysis
671	Spoken Dialogue Systems Technology and Design	Wolfgang Minker, Gary Geunbae Lee, Satoshi Nakamura, Joseph Mariani	Signal,Image and Speech Processing; User Interfaces and Human Computer Interaction; Language Translation and Linguistics
672	Direct and Large-Eddy Simulation VIII	Hans Kuerten, Bernard Geurts, Vincenzo Armenio, Jochen Fröhlich	Simulation and Modeling; Classical Continuum Physics
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675	Structures for Nuclear Facilities	M.Y.H. Bangash	Structural Mechanics; Civil Engineering; Continuum Mechanics and Mechanics of Materials; Building Construction
676	Dynamics of Civil Structures, Volume 4	Tom Proulx	Structural Mechanics; Civil Engineering; Engineering Design
677	Dynamics of Bridges, Volume 5	Tom Proulx	Structural Mechanics; Engineering Design; Civil Engineering
678	Settlement Calculation on High-Rise Buildings	Xiangfu Chen	Structural Mechanics; Geotechnical Engineering & Applied Earth Sciences; Mechanical Engineering
679	Structural Health Monitoring Using Genetic Fuzzy Systems	Prashant M. Pawar, Ranjan Ganguli	Structural Mechanics; Signal, Image and Speech Processing; Aerospace Technology and Astronautics; Building Repair and Maintenance; Civil Engineering; Appl.Mathematics/Computational Methods of Engineering
680	Structural Dynamics and Renewable Energy, Volume 1	Tom Proulx	Structural Mechanics; Vibration, Dynamical Systems, Control; Renewable and Green Energy
681	ISSE 2010 Securing Electronic Business Processes	Norbert Pohlmann, Helmut Reimer, Wolfgang Schneider	Systems and Data Security
682	Analysis and Control of Boolean Networks	Daizhan Cheng, Hongsheng Qi, Zhiqiang Li	Systems Theory, Control; Control; Biological Networks, Systems Biology; Systems Biology; Mathematical Logic and Formal Languages
683	The Mechanics of Solids and Structures - Hierarchical Modeling and the Finite Element Solution	Miguel Luiz Buclelem, Klaus-Jürgen Bathe	Theoretical and Applied Mechanics
684	Recent Advances in Mechanics	Anthony N. Kounadis, Emmanuel E. Gdoutos	Theoretical and Applied Mechanics
685	Trends in Computational Contact Mechanics	Giorgio Zavarise, Peter Wriggers	Theoretical and Applied Mechanics; Appl.Mathematics/Computational Methods of Engineering; Continuum Mechanics and Mechanics of Materials
686	Mechanics of Biological Systems and Materials, Volume 2	Tom Proulx	Theoretical and Applied Mechanics; Biomaterials; Biomedical Engineering
687	Dynamic Behavior of Materials, Volume 1	Tom Proulx	Theoretical and Applied Mechanics; Characterization and Evaluation of Materials; Continuum Mechanics and Mechanics of Materials

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689	Dimensional Analysis	Qing-Ming Tan	Theoretical and Applied Mechanics; Classical Continuum Physics; Functional Analysis; Civil Engineering; Geoengineering, Foundations, Hydraulics
690	Recent Developments and Innovative Applications in Computational Mechanics	Dana Mueller-Hoeppe, Stefan Loehnert, Stefanie Reese	Theoretical and Applied Mechanics; Computational Science and Engineering
691	Engineering Mechanics 2	Dietmar Gross, Werner Hauger, Jörg Schröder, Wolfgang Wall, Javier Bonet	Theoretical and Applied Mechanics; Continuum Mechanics and Mechanics of Materials; Structural Mechanics; Mechanical Engineering
692	Engineering Mechanics 3	Dietmar Gross, Werner Hauger, Jörg Schröder, Wolfgang Wall, Sanjay Govindjee	Theoretical and Applied Mechanics; Continuum Mechanics and Mechanics of Materials; Structural Mechanics; Mechanical Engineering
693	Plate Structures	Victor Birman	Theoretical and Applied Mechanics; Continuum Mechanics and Mechanics of Materials; Structural Mechanics; Mechanical Engineering; Engineering Design
694	Thermomechanics and Infra-Red Imaging, Volume 7	Tom Proulx	Theoretical and Applied Mechanics; Measurement Science and Instrumentation; Characterization and Evaluation of Materials
695	Spatial Contact Problems in Geotechnics	Sergey Aleynikov	Theoretical and Applied Mechanics; Mechanics; Computational Intelligence; Continuum Mechanics and Mechanics of Materials; Structural Mechanics
696	Dynamic Behavior of Materials, Volume 1	Tom Proulx	Theoretical and Applied Mechanics; Mechanics; Materials Science, general
697	MEMS and Nanotechnology, Volume 2	Tom Proulx	Theoretical and Applied Mechanics; Mechanics; Materials Science, general
698	Experimental and Applied Mechanics, Volume 6	Tom Proulx	Theoretical and Applied Mechanics; Mechanics; Materials Science, general
699	Time Dependent Constitutive Behavior and Fracture/Failure Processes, Volume 3	Tom Proulx	Theoretical and Applied Mechanics; Mechanics; Materials Science, general
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703	Asymptotic Methods in Fluid Mechanics: Survey and Recent Advances	Herbert Steinrück	Theoretical and Applied Mechanics; Partial Differential Equations; Fluid- and Aerodynamics
704	Understanding Pendulums	L.P. Pook	Theoretical and Applied Mechanics; Physics, general; History of Science; Mathematics, general; Popular Science, general
705	Engineering Applications of Residual Stress	Tom Proulx	Theoretical and Applied Mechanics; Structural Mechanics; Engineering Design
706	Robot and Multibody Dynamics	Abhinandan Jain	Theoretical and Applied Mechanics; Vibration, Dynamical Systems, Control; Statistical Physics, Dynamical Systems and Complexity
707	Studies in Temporal Urbanism	Fabian Neuhaus	Urbanism; Landscape/Regional and Urban Planning
708	Proceedings of the International Conference on Human-centric Computing 2011 and Embedded and Multimedia Computing 2011	Jame J. Park, Hai Jin, Xiaofei Liao, Ran Zheng	User Interfaces and Human Computer Interaction; Communications Engineering, Networks; Image Processing and Computer Vision; Multimedia Information Systems
709	Vibration and Structural Acoustics Analysis	C.M.A. Vasques, J. Dias Rodrigues	Vibration, Dynamical Systems, Control; Acoustics; Mechanical Engineering; Appl.Mathematics/Computational Methods of Engineering
710	Modal Analysis Topics, Volume 3	Tom Proulx	Vibration, Dynamical Systems, Control; Aerospace Technology and Astronautics; Structural Mechanics
711	Impact Engineering of Composite Structures	Serge Abrate	Vibration, Dynamical Systems, Control; Automotive Engineering; Aerospace Technology and Astronautics
712	Dynamical Inverse Problems: Theory and Application	Graham M. L. Gladwell, Antonino Morassi	Vibration, Dynamical Systems, Control; Civil Engineering; Systems Theory, Control; Dynamical Systems and Ergodic Theory
713	Unsteady Effects of Shock Wave Induced Separation	Piotr Doerffer, Charles Hirsch, Jean-Paul Dussauge, Holger Babinsky, George N. Barakos	Vibration, Dynamical Systems, Control; Classical Continuum Physics
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716	IUTAM Symposium on Dynamics Modeling and Interaction Control in Virtual and Real Environments	Gábor Stépán, László L. Kovács, András Tóth	Vibration, Dynamical Systems, Control; Control, Robotics, Mechatronics; Manufacturing, Machines, Tools; Numerical and Computational Physics; Interaction Design
717	IUTAM Symposium on Emerging Trends in Rotor Dynamics	K. Gupta	Vibration, Dynamical Systems, Control; Machinery and Machine Elements; Computational Intelligence; Mechanical Engineering; Statistical Physics, Dynamical Systems and Complexity
718	Vibration Control of Active Structures	A. Preumont	Vibration, Dynamical Systems, Control; Mechanical Engineering; Automotive Engineering; Noise Control
719	Multibody Dynamics	Krzysztof Arczewski, Wojciech Blajer, Janusz Fraczek, Marek Wojtyra	Vibration, Dynamical Systems, Control; Mechanical Engineering; Computational Intelligence
720	Nonlinear and Complex Dynamics	José António Tenreiro Machado, Dumitru Baleanu, Albert C. J. Luo	Vibration, Dynamical Systems, Control; Mechanics; Complexity; Computational Science and Engineering
721	IUTAM Symposium on the Vibration Analysis of Structures with Uncertainties	Alexander K. Belyaev, Robin S. Langley	Vibration, Dynamical Systems, Control; Structural Mechanics; Continuum Mechanics and Mechanics of Materials; Statistical Theory and Methods; Appl.Mathematics/Computational Methods of Engineering
722	Structural Dynamics, Volume 3	Tom Proulx	Vibration, Dynamical Systems, Control; Structural Mechanics; Engineering Design
723	Structurally Constrained Controllers	Somayeh Sojoudi, Javad Lavaei, Amir G. Aghdam	Vibration, Dynamical Systems, Control; Systems Theory, Control; Calculus of Variations and Optimal Control; Optimization
724	Friction-Induced Vibration in Lead Screw Drives	Orang Vahid-Araghi, Farid Golnaraghi	Vibration, Dynamical Systems, Control; Systems Theory, Control; Manufacturing, Machines, Tools