

Synthesis Collection One 100本電子書清單

No.	Book Title	Author	Copyright Year	Print ISBN	Electronic ISBN	Series Title	DOI URL	Publisher
1	A Concise Introduction to Multiagent Systems and Distributed Artificial Intelligence	Nikos Vlassis	2007	978-3-031-00415-5	978-3-031-01543-4	Synthesis Lectures on Artificial Intelligence and Machine Learning	https://doi.org/10.1007/978-3-031-01543-4	Springer International Publishing
2	Adaptive Mesh Refinement in Time-Domain Numerical Electromagnetics	Costas D. Sarris	2007	978-3-031-00567-1	978-3-031-01695-0	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-01695-0	Springer International Publishing
3	Advanced Probability Theory for Biomedical Engineers	John D. Enderle, David C. Farden, Daniel J. Krause	2006	978-3-031-00487-2	978-3-031-01615-8	Synthesis Lectures on Biomedical Engineering	https://doi.org/10.1007/978-3-031-01615-8	Springer International Publishing
4	Antennas with Non-Foster Matching Networks	James T. Aberle, Robert Loepsinger-Romak	2007	978-3-031-00404-9	978-3-031-01532-8	Synthesis Lectures on Antennas	https://doi.org/10.1007/978-3-031-01532-8	Springer International Publishing
5	Articulation and Intelligibility	Jont B. Allen	2005	978-3-031-01426-0	978-3-031-02554-9	Synthesis Lectures on Speech and Audio Processing	https://doi.org/10.1007/978-3-031-02554-9	Springer International Publishing
6	Artificial Organs	Gerald E. Miller	2006	978-3-031-00483-4	978-3-031-01611-0	Synthesis Lectures on Biomedical Engineering	https://doi.org/10.1007/978-3-031-01611-0	Springer International Publishing
7	Atmel AVR Microcontroller Primer	Steven F. Barrett, Daniel J. Pack	2008	978-3-031-79772-9	978-3-031-79773-6	Synthesis Lectures on Digital Circuits & Systems	https://doi.org/10.1007/978-3-031-79773-6	Springer International Publishing
8	Basic Probability Theory for Biomedical Engineers	John D. Enderle, David C. Farden, Daniel J. Krause	2006	978-3-031-00485-8	978-3-031-01613-4	Synthesis Lectures on Biomedical Engineering	https://doi.org/10.1007/978-3-031-01613-4	Springer International Publishing
9	Bioinstrumentation	John Enderle	2006	978-3-031-00488-9	978-3-031-01616-5	Synthesis Lectures on Biomedical Engineering	https://doi.org/10.1007/978-3-031-01616-5	Springer International Publishing
10	Biomedical Image Analysis	Scott T. Acton, Nilanjan Ray	2006	978-3-031-01109-2	978-3-031-02237-1	Synthesis Lectures on Image, Video, and Multimedia Processing	https://doi.org/10.1007/978-3-031-02237-1	Springer International Publishing
11	BioNanotechnology	Elisabeth S. Papazoglou, Aravind Parthasarathy	2007	978-3-031-00490-2	978-3-031-01618-9	Synthesis Lectures on Biomedical Engineering	https://doi.org/10.1007/978-3-031-01618-9	Springer International Publishing
12	Blossoming Development of Splines	Stephen Mann	2006	978-3-031-79515-2	978-3-031-79516-9	Synthesis Lectures on Visual Computing: Computer Graphics, Animation, Computational Photography and Imaging	https://doi.org/10.1007/978-3-031-79516-9	Springer International Publishing
13	Brain-Machine Interface Engineering	Justin C. Sanchez, José C. Principe	2007	978-3-031-00493-3	978-3-031-01621-9	Synthesis Lectures on Biomedical Engineering	https://doi.org/10.1007/978-3-031-01621-9	Springer International Publishing
14	Capstone Design Courses	Jay R. Goldberg	2007	978-3-031-00491-9	978-3-031-01619-6	Synthesis Lectures on Biomedical Engineering	https://doi.org/10.1007/978-3-031-01619-6	Springer International Publishing
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16	Code Division Multiple Access (CDMA)	R. Michael Buehrer	2006	978-3-031-00545-9	978-3-031-01673-8	Synthesis Lectures on Communications	https://doi.org/10.1007/978-3-031-01673-8	Springer International Publishing
17	Computational Electronics	Dragica Vasileska, Stephen M. Goodnick	2006	978-3-031-00562-6	978-3-031-01690-5	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-01690-5	Springer International Publishing
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21	Electromagnetic Scattering using the Iterative Multi-Region Technique	Mohamed H Al Sharkawy, Veysel Demir, Atef Z. Elsherbeni	2007	978-3-031-00574-9	978-3-031-01702-5	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-01702-5	Springer International Publishing
22	Electromagnetics and Antenna Optimization using Taguchi's Method	Wei-Chung Weng, Fan Yang, Atef Z. Elsherbeni	2008	978-3-031-00573-2	978-3-031-01701-8	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-01701-8	Springer International Publishing
23	Electronically Scanned Arrays	Robert J. Mailloux	2007	978-3-031-00406-3	978-3-031-01534-2	Synthesis Lectures on Antennas	https://doi.org/10.1007/978-3-031-01534-2	Springer International Publishing

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24	Engineering Ethics	George D. Catalano	2006	978-3-031-79190-1	978-3-031-79191-8	Synthesis Lectures on Engineers, Technology, & Society	https://doi.org/10.1007/978-3-031-79191-8	Springer International Publishing
25	Engineering, Poverty, and the Earth	George D. Catalano	2007	978-3-031-79936-5	978-3-031-79937-2	Synthesis Lectures on Engineers, Technology, & Society	https://doi.org/10.1007/978-3-031-79937-2	Springer International Publishing
26	Engineers within a Local and Global Society	Caroline Baillie	2006	978-3-031-79933-4	978-3-031-79934-1	Synthesis Lectures on Engineers, Technology, & Society	https://doi.org/10.1007/978-3-031-79934-1	Springer International Publishing
27	Essentials of Applied Mathematics for Scientists and Engineers	Robert Watts	2008	978-3-031-79299-1	978-3-031-79300-4	Synthesis Lectures on Engineering, Science, and Technology	https://doi.org/10.1007/978-3-031-79300-4	Springer International Publishing
28	Estimation of Cortical Connectivity in Humans	Laura Astolfi, Fabio Babiloni	2008	978-3-031-00494-0	978-3-031-01622-6	Synthesis Lectures on Biomedical Engineering	https://doi.org/10.1007/978-3-031-01622-6	Springer International Publishing
29	Exploitation of a Ship's Magnetic Field Signatures	John J. Holmes	2006	978-3-031-00565-7	978-3-031-01693-6	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-01693-6	Springer International Publishing
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31	Frequency Domain Hybrid Finite Element Methods in Electromagnetics	John. L Volakis, Kubilay Sertel, Brian C Usner	2006	978-3-031-00566-4	978-3-031-01694-3	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-01694-3	Springer International Publishing
32	Fundamentals of Electromagnetics	David Voltmer	2007	978-3-031-79413-1	978-3-031-79414-8	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-79414-8	Springer International Publishing
33	Fundamentals of Electromagnetics 2	David Voltmer	2007	978-3-031-00572-5	978-3-031-01700-1	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-01700-1	Springer International Publishing
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39	Hf-Based High-k Dielectrics	Young-Hee Kim, Jack C. Lee	2005	978-3-031-01424-6	978-3-031-02552-5	Synthesis Lectures on Solid State Materials and Devices	https://doi.org/10.1007/978-3-031-02552-5	Springer International Publishing
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44	Implanted Antennas in Medical Wireless Communications	Yahya Rahmat-Samii, Jaehoon Kim	2006	978-3-031-00403-2	978-3-031-01531-1	Synthesis Lectures on Antennas	https://doi.org/10.1007/978-3-031-01531-1	Springer International Publishing
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46	Intermediate Probability Theory for Biomedical Engineers	John D. Enderle, David C. Farden, Daniel J. Krause	2006	978-3-031-00486-5	978-3-031-01614-1	Synthesis Lectures on Biomedical Engineering	https://doi.org/10.1007/978-3-031-01614-1	Springer International Publishing
47	Introduction to Logic Synthesis using Verilog HDL	Robert B. Reese, Mitchell A. Thornton	2006	978-3-031-79742-2	978-3-031-79743-9	Synthesis Lectures on Digital Circuits & Systems	https://doi.org/10.1007/978-3-031-79743-9	Springer International Publishing
48	Introduction to Smart Antennas	Constantine A. Balanis, Panayiotis I. Ioannides	2007	978-3-031-00405-6	978-3-031-01533-5	Synthesis Lectures on Antennas	https://doi.org/10.1007/978-3-031-01533-5	Springer International Publishing

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49	Introduction to Statistics for Biomedical Engineers	Kristina M. Ropella	2007	978-3-031-00043-0	978-3-031-01620-2	Synthesis Lectures on Biomedical Engineering	https://doi.org/10.1007/978-3-031-01620-2	Springer International Publishing
50	Introduction to the Finite Element Method in Electromagnetics	Anastasis C. Polycarpou	2006	978-3-031-00561-9	978-3-031-01689-9	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-01689-9	Springer International Publishing
51	Joint Source-Channel Video Transmission	Fan Zhai, Aggelos Katsaggelos	2007	978-3-031-01116-0	978-3-031-02244-9	Synthesis Lectures on Image, Video, and Multimedia Processing	https://doi.org/10.1007/978-3-031-02244-9	Springer International Publishing
52	Latent Semantic Mapping	Jerome R. Bellegarda	2007	978-3-031-01428-4	978-3-031-02556-3	Synthesis Lectures on Speech and Audio Processing	https://doi.org/10.1007/978-3-031-02556-3	Springer International Publishing
53	Learning Programming Using Matlab	Khalid Sayood	2007	978-3-031-00889-4	978-3-031-02017-9	Synthesis Lectures on Electrical Engineering	https://doi.org/10.1007/978-3-031-02017-9	Springer International Publishing
54	Light Field Sampling	Cha Zhang, Tsuhan Chen	2006	978-3-031-01113-9	978-3-031-02241-8	Synthesis Lectures on Image, Video, and Multimedia Processing	https://doi.org/10.1007/978-3-031-02241-8	Springer International Publishing
55	Mapped Vector Basis Functions for Electromagnetic Integral Equations	Andrew F. Peterson	2006	978-3-031-00558-9	978-3-031-01686-8	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-01686-8	Springer International Publishing
56	Mellin-Transform Method for Integral Evaluation	George Fikioris	2007	978-3-031-00569-5	978-3-031-01697-4	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-01697-4	Springer International Publishing
57	Microcontrollers Fundamentals for Engineers and Scientists	Steven F. Barrett, Daniel J. Pack	2006	978-3-031-79736-1	978-3-031-79737-8	Synthesis Lectures on Digital Circuits & Systems	https://doi.org/10.1007/978-3-031-79737-8	Springer International Publishing
58	Modeling a Ship's Ferromagnetic Signatures	John J. Holmes	2007	978-3-031-00570-1	978-3-031-01698-1	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-01698-1	Springer International Publishing
59	Modern Image Quality Assessment	Zhou Wang, Alan C. Bovik	2006	978-3-031-01110-8	978-3-031-02238-8	Synthesis Lectures on Image, Video, and Multimedia Processing	https://doi.org/10.1007/978-3-031-02238-8	Springer International Publishing
60	MPEG-4 Beyond Conventional Video Coding	Mihaela Schar, Deepak S Turaga, Thomas Stockhammer	2006	978-3-031-01111-5	978-3-031-02239-5	Synthesis Lectures on Image, Video, and Multimedia Processing	https://doi.org/10.1007/978-3-031-02239-5	Springer International Publishing
61	MRTD (Multi Resolution Time Domain) Method in Electromagnetics	Nathan Bushyager, Manos M. Tentzeris	2005	978-3-031-00559-6	978-3-031-01687-5	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-01687-5	Springer International Publishing
62	Multimodal Imaging in Neurology	Hans-Peter Müller, Jan Kassubek	2008	978-3-031-00495-7	978-3-031-01623-3	Synthesis Lectures on Biomedical Engineering	https://doi.org/10.1007/978-3-031-01623-3	Springer International Publishing
63	Multiple-Valued Logic	D. Michael Miller, Mitchell A. Thornton	2008	978-3-031-79778-1	978-3-031-79779-8	Synthesis Lectures on Digital Circuits & Systems	https://doi.org/10.1007/978-3-031-79779-8	Springer International Publishing
64	Network Simulation	Richard M. Fujimoto, Kalyan S. Perumalla, George F. Riley	2007	978-3-031-79976-1	978-3-031-79977-8	Synthesis Lectures on Learning, Networks, and Algorithms	https://doi.org/10.1007/978-3-031-79977-8	Springer International Publishing
65	Nonlinear Source Separation	Luis B. Almeida	2006	978-3-031-01398-0	978-3-031-02526-6	Synthesis Lectures on Signal Processing	https://doi.org/10.1007/978-3-031-02526-6	Springer International Publishing
66	Optical Interconnects	Ray T. Chen, Chulchae Choi	2008	978-3-031-01425-3	978-3-031-02553-2	Synthesis Lectures on Solid State Materials and Devices	https://doi.org/10.1007/978-3-031-02553-2	Springer International Publishing
67	Perfectly Matched Layer (PML) for Computational Electromagnetics	Jean-Pierre Bérenger	2007	978-3-031-00568-8	978-3-031-01696-7	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-01696-7	Springer International Publishing
68	Power Electronics for Modern Wind Turbines	Frede Blaabjerg, Zhe Chen	2006	978-3-031-01366-9	978-3-031-02494-8	Synthesis Lectures on Power Electronics	https://doi.org/10.1007/978-3-031-02494-8	Springer International Publishing
69	Pragmatic Circuits	William J. Eccles	2006	978-3-031-79745-3	978-3-031-79746-0	Synthesis Lectures on Digital Circuits & Systems	https://doi.org/10.1007/978-3-031-79746-0	Springer International Publishing
70	Pragmatic Circuits	William J. Eccles	2006	978-3-031-79748-4	978-3-031-79749-1	Synthesis Lectures on Digital Circuits & Systems	https://doi.org/10.1007/978-3-031-79749-1	Springer International Publishing
71	Pragmatic Circuits	William J. Eccles	2006	978-3-031-79751-4	978-3-031-79752-1	Synthesis Lectures on Digital Circuits & Systems	https://doi.org/10.1007/978-3-031-79752-1	Springer International Publishing
72	Pragmatic Logic	William J. Eccles	2007	978-3-031-79769-9	978-3-031-79770-5	Synthesis Lectures on Digital Circuits & Systems	https://doi.org/10.1007/978-3-031-79770-5	Springer International Publishing
73	Project Management for Engineering Design	Charles Lessard, Joseph Lessard	2007	978-3-031-79302-8	978-3-031-79303-5	Synthesis Lectures on Engineering, Science, and Technology	https://doi.org/10.1007/978-3-031-79303-5	Springer International Publishing

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74	PSpice for Analog Communications Engineering	Paul Tobin	2007	978-3-031-79760-6	978-3-031-79761-3	Synthesis Lectures on Digital Circuits & Systems	https://doi.org/10.1007/978-3-031-79761-3	Springer International Publishing
75	PSpice for Circuit Theory and Electronic Devices	Paul Tobin	2007	978-3-031-79754-5	978-3-031-79755-2	Synthesis Lectures on Digital Circuits & Systems	https://doi.org/10.1007/978-3-031-79755-2	Springer International Publishing
76	PSpice for Digital Communications Engineering	Paul Tobin	2007	978-3-031-79757-6	978-3-031-79758-3	Synthesis Lectures on Digital Circuits & Systems	https://doi.org/10.1007/978-3-031-79758-3	Springer International Publishing
77	PSpice for Digital Signal Processing	Paul Tobin	2007	978-3-031-79766-8	978-3-031-79767-5	Synthesis Lectures on Digital Circuits & Systems	https://doi.org/10.1007/978-3-031-79767-5	Springer International Publishing
78	PSpice for Filters and Transmission Lines	Paul Tobin	2007	978-3-031-79763-7	978-3-031-79764-4	Synthesis Lectures on Digital Circuits & Systems	https://doi.org/10.1007/978-3-031-79764-4	Springer International Publishing
79	Quantum Computing for Computer Architects	Tzvetan S. Metodi, Frederic T. Chong	2006	978-3-031-00590-9	978-3-031-01718-6	Synthesis Lectures on Computer Architecture	https://doi.org/10.1007/978-3-031-01718-6	Springer International Publishing
80	Real-Time Image and Video Processing	Nasser Kehtarnavaz, Mark Gamadia	2008	978-3-031-01112-2	978-3-031-02240-1	Synthesis Lectures on Image, Video, and Multimedia Processing	https://doi.org/10.1007/978-3-031-02240-1	Springer International Publishing
81	Recognition of Humans and Their Activities Using Video	Rama Chellappa, Amit K. Roy-Chowdhury, S. Kevin Zhou	2005	978-3-031-01108-5	978-3-031-02236-4	Synthesis Lectures on Image, Video, and Multimedia Processing	https://doi.org/10.1007/978-3-031-02236-4	Springer International Publishing
82	Reconfigurable Antennas	Jennifer T. Bernhard	2007	978-3-031-00407-0	978-3-031-01535-9	Synthesis Lectures on Antennas	https://doi.org/10.1007/978-3-031-01535-9	Springer International Publishing
83	Relativistic Flight Mechanics and Space Travel	Richard F. Tinder	2007	978-3-031-79296-0	978-3-031-79297-7	Synthesis Lectures on Engineering, Science, and Technology	https://doi.org/10.1007/978-3-031-79297-7	Springer International Publishing
84	RFID Explained	Roy Want	2006	978-3-031-01346-1	978-3-031-02474-0	Synthesis Lectures on Mobile & Pervasive Computing	https://doi.org/10.1007/978-3-031-02474-0	Springer International Publishing
85	Sensory Organ Replacement and Repair	Gerald E. Miller	2006	978-3-031-00484-1	978-3-031-01612-7	Synthesis Lectures on Biomedical Engineering	https://doi.org/10.1007/978-3-031-01612-7	Springer International Publishing
86	Signal Processing of Random Physiological Signals	Charles S. Lessard	2008	978-3-031-00482-7	978-3-031-01610-3	Synthesis Lectures on Biomedical Engineering	https://doi.org/10.1007/978-3-031-01610-3	Springer International Publishing
87	Spectral Analysis of Signals	Yanwei Wang, Jian Li, Petre Stoica	2005	978-3-031-01397-3	978-3-031-02525-9	Synthesis Lectures on Signal Processing	https://doi.org/10.1007/978-3-031-02525-9	Springer International Publishing
88	Super Resolution of Images and Video	Aggelos K. Katsaggelos, Rafael Molina, Javier Mateos	2007	978-3-031-01115-3	978-3-031-02243-2	Synthesis Lectures on Image, Video, and Multimedia Processing	https://doi.org/10.1007/978-3-031-02243-2	Springer International Publishing
89	Support Vector Machines for Antenna Array Processing and Electromagnetics	Manel Martínez-Ramón, Christos Christodoulou	2006	978-3-031-00564-0	978-3-031-01692-9	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-01692-9	Springer International Publishing
90	Tensor Properties of Solids, Part One	Richard F. Tinder	2007	978-3-031-79305-9	978-3-031-79306-6	Synthesis Lectures on Engineering, Science, and Technology	https://doi.org/10.1007/978-3-031-79306-6	Springer International Publishing
91	Tensor Properties of Solids, Part Two	Richard F. Tinder	2007	978-3-031-79308-0	978-3-031-79309-7	Synthesis Lectures on Engineering, Science, and Technology	https://doi.org/10.1007/978-3-031-79309-7	Springer International Publishing
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93	The Reaction Wheel Pendulum	Daniel J. Block, Karl J. Åström, Mark W. Spong	2007	978-3-031-00699-9	978-3-031-01827-5	Synthesis Lectures on Control and Mechatronics	https://doi.org/10.1007/978-3-031-01827-5	Springer International Publishing
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95	The Theory of Timed I/O Automata	Dilsun K. Kaynar, Nancy Lynch, Roberto Segala, Frits Vaandrager	2006	978-3-031-00666-1	978-3-031-01794-0	Synthesis Lectures on Computer Science	https://doi.org/10.1007/978-3-031-01794-0	Springer International Publishing
96	The Transmission-Line Modeling (TLM) Method in Electromagnetics	Christos Christopoulos	2006	978-3-031-00563-3	978-3-031-01691-2	Synthesis Lectures on Computational Electromagnetics	https://doi.org/10.1007/978-3-031-01691-2	Springer International Publishing
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