

## **MORGAN & CLAYPOOL SYNTHESIS LIBRARY COLLECTION 10 & 11** **ON IEEE PLATFORM**

1. 5G Mobile Networks: A Systems Approach
2. A Survey of Blur Detection and Sharpness Assessment Methods
3. Advanced Concepts and Architectures for Plasma-Enabled Material Processing
4. AgeTech, Cognitive Health, and Dementia
5. AI for Computer Architecture: Principles, Practice, and Prospects
6. An Introduction to Numerical Methods for the Physical Sciences
7. An Introduction to Proofs with Set Theory
8. Anywhere-Anytime Signals and Systems Laboratory: From MATLAB to Smartphones, Third Edition
9. Applications of Minimally Invasive Nanomedicine-Based Therapies in 3D in vitro Cancer Platforms
10. Arduino II: Systems
11. Arduino III: Internet of Things
12. Aspects of Differential Geometry V
13. Asymptotic Modal Analysis of Structural and Acoustical Systems
14. Atomically Precise Metal Nanoclusters
15. Automated Essay Scoring
16. Automated Verification of Concurrent Search Structures
17. Autonomy and Independence: Aging in an Era of Technology
18. Behavior Analysis and Modeling of Traffic Participants
19. Biologically Inspired Design: A Primer
20. Bite-Sized Operations Management
21. Blockchain Platforms: A Look at the Underbelly of Distributed Platforms
22. Brain–Computer Interfaces: Neurorehabilitation of Voluntary Movement after Stroke and Spinal Cord Injury
23. Capstone Engineering Design: Project Process and Reviews (Student Engineering Design Workbook)
24. Case Studies in Forensic Physics
25. Cold Atmospheric Plasma (CAP) Technology and Applications
26. Computer Vision in the Infrared Spectrum: Challenges and Approaches
27. Consistent Distributed Storage
28. Continuous Distributions in Engineering and the Applied Sciences -- Part II
29. Continuous Distributions in Engineering and the Applied Sciences: Part I
30. Conversational AI: Dialogue Systems, Conversational Agents, and Chatbots
31. Creating Autonomous Vehicle Systems
32. Crowd Dynamics by Kinetic Theory Modeling: Complexity, Modeling, Simulations, and Safety
33. Data Orchestration in Deep Learning Accelerators
34. Data through Movement: Designing Embodied Human-Data Interaction for Informal Learning
35. Data-Driven Personas
36. Decision Making, Planning, and Control Strategies for Intelligent Vehicles
37. Deep Learning Systems: Algorithms, Compilers, and Processors for Large-Scale Production
38. Designing and Building Enterprise Knowledge Graphs
39. Designing Engineering and Technology Curricula: Embedding Educational Philosophy
40. Disability Interactions: Creating Inclusive Innovations
41. Edge Intelligence in the Making: Optimization, Deep Learning, and Applications
42. Efficient Processing of Deep Neural Networks
43. Electronic Measurements: A Practical Approach
44. Embeddings in Natural Language Processing: Theory and Advances in Vector Representations of Meaning
45. Embracing Risk: Cyber Insurance as an Incentive Mechanism for Cybersecurity
46. Emerging Trends in Immunomodulatory Nanomaterials Toward Cancer Therapy
47. Ending Medicine's Chronic Dysfunction: Tools and Standards for Medical Decision Making

48. Engineer Your Software!
49. Engineering Design: An Organic Approach to Solving Complex Problems in the Modern World
50. Explainable Natural Language Processing
51. External Labeling: Fundamental Concepts and Algorithmic Techniques
52. Fault-Tolerant Distributed Transactions on Blockchain
53. Finite-State Text Processing
54. Fluid Mechanics Experiments
55. Graph Representation Learning
56. Gravitational Waves: An Overview
57. Image Fusion in Remote Sensing: Conventional and Deep Learning Approaches
58. In-/Near-Memory Computing
59. Integrated Process Design and Operational Optimization via Multiparametric Programming
60. Interface for an App: The design rationale leading to an app that allows someone with Type 1 diabetes to self-manage their condition
61. Introduction to Deep Learning for Engineers: Using Python and Google Cloud Platform
62. Introduction to Engineering Design
63. Introduction to Optics I: Interaction of Light with Matter
64. Introduction to Symbolic Plan and Goal Recognition
65. Inventing a European Nation: Engineers for Portugal, from Baroque to Fascism
66. Knowledge Graphs
67. Linear Algebra for Pattern Processing: Projection, Singular Value Decomposition, and Pseudoinverse
68. Machine and Deep Learning Algorithms and Applications
69. Machine Design for Technology Students: A Systems Engineering Approach
70. Machine Learning for Solar Array Monitoring, Optimization, and Control
71. Mathematical Problem Factories: Almost Endless Problem Generation
72. Modeling and Optimization in Software-Defined Networks
73. Modeling for Hybrid and Electric Vehicles Using Simscape
74. Monte Carlo Methods: A Hands-On Computational Introduction Utilizing Excel
75. Multifunctional Metasurfaces: Design Principles and Device Realizations
76. Multi-Modal Face Presentation Attack Detection
77. Nanotechnology for Bioengineers
78. Nanotechnology Past and Present
79. Nanotechnology, Lessons from Nature: Discoveries, Research, and Applications
80. Network Embedding: Theories, Methods, and Applications
81. Oil & Gas Produced Water Management
82. Organizational Implementation: The Design in Use of Information Systems
83. Parallel Processing, 1980 to 2020
84. Path Planning and Tracking for Vehicle Collision Avoidance in Lateral and Longitudinal Motion Directions
85. Person Re-Identification with Limited Supervision
86. Philosophy and Engineering Education: New Perspectives, An Introduction
87. Poisson Line Cox Process: Foundations and Applications to Vehicular Networks
88. Polynomial Functional Dynamical Systems
89. Pretrained Transformers for Text Ranking: BERT and Beyond
90. Principles of Blockchain Systems
91. Privacy Risk Analysis of Online Social Networks
92. Probability and Statistics for STEM: A Course in One Semester
93. Programming the ARM® Cortex®-M4-based STM32F4 Microcontrollers with Simulink®
94. Quantum Computer Systems: Research for Noisy Intermediate-Scale Quantum Computers
95. Question Answering for the Curated Web: Tasks and Methods in QA over Knowledge Bases and Text Collections
96. Research Advances in ADHD and Technology
97. Robotic Computing on FPGAs
98. Scientific Analysis of Cultural Heritage Objects
99. Select Ideas in Partial Differential Equations

100. Semantic Relations Between Nominals
101. Sequential Bifurcation Trees to Chaos in Nonlinear Time-Delay Systems
102. Signals and Systems: A One Semester Modular Course
103. Simulating Information Retrieval Test Collections
104. Singlet Oxygen Detection and Imaging
105. Skylines and Other Dominance-Based Queries
106. Smartphone-Based Real-Time Digital Signal Processing
107. Socially Just Mining: Rethoric or Reality? Lessons from Peru
108. Spoof Plasmons
109. State-Space Control Systems: The MATLAB®/Simulink® Approach
110. Statistics is Easy: Case Studies on Real Scientific Datasets
111. Sustainable Desalination and Water Reuse
112. Task Intelligence for Search and Recommendation
113. The Art of Teaching Physics with Ancient Chinese Science and Technology
114. The Engineering Dynamics Course Companion, Part 1: Particles: Kinematics and Kinetics
115. The Engineering Dynamics Course Companion, Part 2: Rigid Bodies: Kinematics and Kinetics
116. The Four Generations of Entity Resolution
117. The Navier–Stokes Problem
118. The Trouble With Sharing
119. Theory of Graded-Bandgap Thin-Film Solar Cells
120. Thermodynamic Analysis for Industrial Refrigeration Systems
121. Third Space, Information Sharing, and Participatory Design
122. Threatcasting
123. Transfer Learning for Multiagent Reinforcement Learning Systems
124. Trustworthy Communications and Complete Genealogies
125. Validity, Reliability, and Significance: Empirical Methods for NLP and Data Science
126. Visual Analysis of Multilayer Networks
127. Visualizing Dynamic Systems: Volumetric and Holographic Display
128. Water-Train: The Most Energy-Efficient Inland Water Transportation
129. Waves in Biomechanics: THz Vibrations and Modal Analysis in Proteins and Macromolecular Structures
130. Web Data APIs for Knowledge Graphs: Easing Access to Semantic Data for Application Developers
131. Why AI/Data Science Projects Fail
132. Word Association Thematic Analysis: A Social Media Text Exploration Strategy