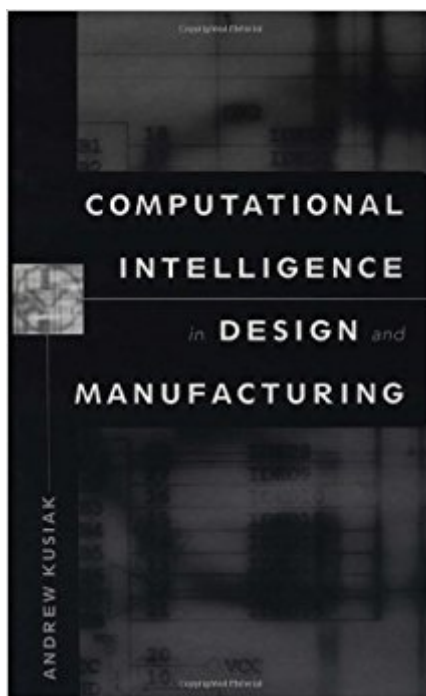


The book was found

Computational Intelligence In Design And Manufacturing



Synopsis

Take the next step in Integrated Product and Process Development. This pioneering book is the first to apply state-of-the-art computational intelligence techniques to all phases of manufacturing system design and operations. It equips engineers with a superior array of new tools for optimizing their work in Integrated Product and Process Development. Drawing on his extensive experience in the field of advanced manufacturing, Andrew Kusiak has masterfully embedded coverage of data mining, expert systems, neural networks, autonomous reasoning techniques, and other computational methods in chapters that cover all key facets of integrated manufacturing system design and operations, including: * Process planning * Setup reduction * Production planning and scheduling * Kanban systems * Manufacturing equipment selection * Group technology * Facilities and manufacturing cell layout * Warehouse layout * Manufacturing system product and component design * Supplier evaluation. Each chapter includes questions and problems that address key issues on model integration and the use of computational intelligence approaches to solve difficulties across many areas of an enterprise. Examples and case studies from real-world industrial projects illustrate the powerful application potential of the computational techniques. Comprehensive in scope and flexible in approach, Computational Intelligence in Design and Manufacturing is right in step with the enterprise of the future: extended, virtual, model-driven, knowledge-based, and integrated in time and space. It is essential reading for forward-thinking students and professional engineers and managers working in design systems, manufacturing, and related areas.

Book Information

Hardcover: 592 pages

Publisher: Wiley-Interscience; 1 edition (April 14, 2000)

Language: English

ISBN-10: 0471348791

ISBN-13: 978-0471348795

Product Dimensions: 6.4 x 1.2 x 9.4 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #617,502 in Books (See Top 100 in Books) #132 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Design > Products #139 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Polymers & Textiles #420 in Books > Engineering & Transportation > Engineering >

Customer Reviews

"It is essential reading for anyone involved with design and manufacturing problems." (Assembly Automation, Vol, 21. No.3, 2001)

Take the next step in Integrated Product and Process Development This pioneering book is the first to apply state-of-the-art computational intelligence techniques to all phases of manufacturing system design and operations. It equips engineers with a superior array of new tools for optimizing their work in Integrated Product and Process Development. Drawing on his extensive experience in the field of advanced manufacturing, Andrew Kusiak has masterfully embedded coverage of data mining, expert systems, neural networks, autonomous reasoning techniques, and other computational methods in chapters that cover all key facets of integrated manufacturing system design and operations, including: * Process planning * Setup reduction * Production planning and scheduling * Kanban systems * Manufacturing equipment selection * Group technology * Facilities and manufacturing cell layout * Warehouse layout * Manufacturing system product and component design * Supplier evaluation Each chapter includes questions and problems that address key issues on model integration and the use of computational intelligence approaches to solve difficulties across many areas of an enterprise. Examples and case studies from real-world industrial projects illustrate the powerful application potential of the computational techniques. Comprehensive in scope and flexible in approach, Computational Intelligence in Design and Manufacturing is right in step with the enterprise of the future: extended, virtual, model-driven, knowledge-based, and integrated in time and space. It is essential reading for forward-thinking students and professional engineers and managers working in design systems, manufacturing, and related areas.

[Download to continue reading...](#)

Computational Intelligence in Design and Manufacturing Emotional Intelligence: Why You're Smarter But They Are More Successful (Emotional intelligence leadership, Emotional Quotient, emotional intelligence depression, emotional intelligence workbook) Emotional Intelligence: 3 Manuscripts - Emotional Intelligence Definitive Guide, Mastery, Complete Step by Step Guide (Social Engineering, Leadership, ... (Emotional Intelligence Series Book 4) Additive Manufacturing Technologies: 3D Printing, Rapid Prototyping, and Direct Digital Manufacturing Supply Chain Management in Manufacturing + Inventory Control in Manufacturing: 2 Books in 1 ISO 22716:2007, Cosmetics - Good Manufacturing Practices (GMP) - Guidelines on Good Manufacturing Practices

Computational Fluid Mechanics and Heat Transfer, Third Edition (Series in Computational and Physical Processes in Mechanics and Thermal Sciences) Theoretical Neuroscience: Computational and Mathematical Modeling of Neural Systems (Computational Neuroscience Series) Simulating Enzyme Reactivity: Computational Methods in Enzyme Catalysis (Theoretical and Computational Chemistry Series) The Power of Computational Thinking: Games, Magic and Puzzles to Help You Become a Computational Thinker Current Topics in Computational Molecular Biology (Computational Molecular Biology) Computational Approaches to Protein Dynamics: From Quantum to Coarse-Grained Methods (Series in Computational Biophysics) Humanitarian Intelligence: A Practitioner's Guide to Crisis Analysis and Project Design (Security and Professional Intelligence Education Series) Granular Neural Networks, Pattern Recognition and Bioinformatics (Studies in Computational Intelligence) Computational Intelligence: A Methodological Introduction (Texts in Computer Science) Graphic Design Success: Over 100 Tips for Beginners in Graphic Design: Graphic Design Basics for Beginners, Save Time and Jump Start Your Success (graphic ... graphic design beginner, design skills) Writing Classified and Unclassified Papers for National Security: A Scarecrow Professional Intelligence Education Series Manual (Security and Professional Intelligence Education Series) Emotional Intelligence: The Complete Step by Step Guide on Self Awareness, Controlling Your Emotions and Improving Your EQ (Emotional Intelligence Series Book 3) Emotional Intelligence: How to Increase EQ, Interpersonal Skills, Communication Skills and Achieve Success (emotional intelligence, emotions, how to read ... problem solving, communication Book 3) Ethics of Spying: A Reader for the Intelligence Professional (Security and Professional Intelligence Education Series)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)