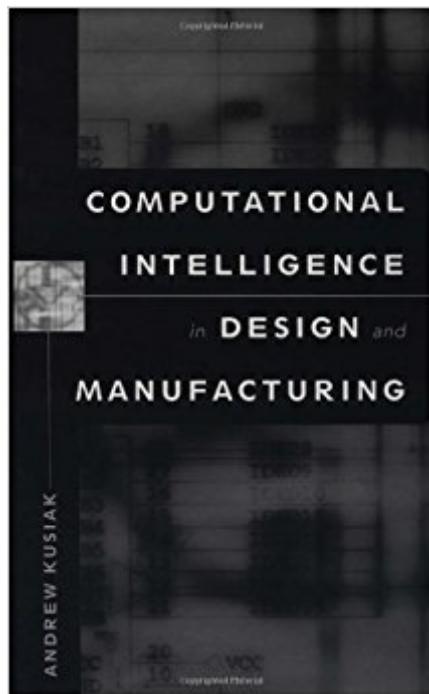


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Computational Intelligence In Design And Manufacturing



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.

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

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