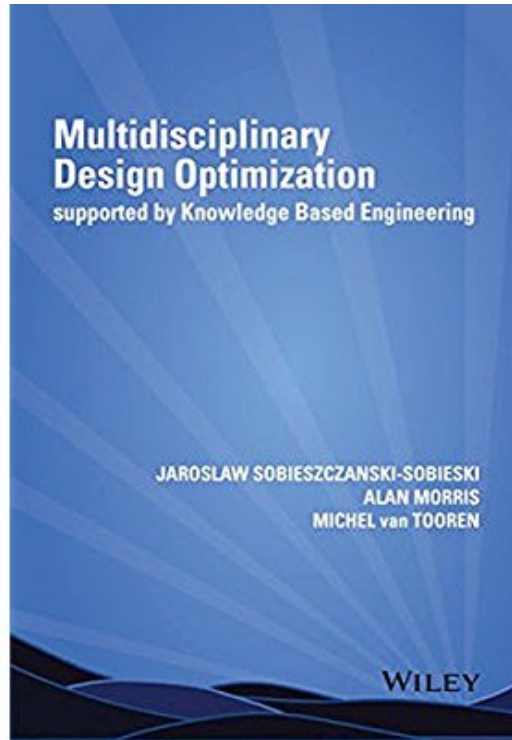


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Synopsis :

From the Back Cover The successful design of an automobile, aircraft, ship, or power plant is challenging because there are many interacting components and disciplines that must work in harmony. Coupling of the mathematical models employed in today's design process has the effect that 'everything affects everything else' which cannot be handled by conventional mono-disciplinary and modular design. Consequently, a new integrated way of system design is emerging that combines search processes, parametric modeling, and complex data transfer among design teams that may be globally dispersed. Multidisciplinary Design Optimization Supported by Knowledge-Based Engineering supports engineers confronting this daunting and new design paradigm. It describes methodology for conducting a system design in a systematic and rigorous manner that supports human creativity to optimize the design objective(s) subject to constraints and uncertainties. The material presented builds on decades of experience in multidisciplinary design optimization (MDO) methods, progress in concurrent computing, and knowledge-based engineering (KBE) tools. Key features: • Comprehensively covers MDO and is the only book to directly link this with KBE methods • Provides a pathway through basic optimization methods to MDO methods • Directly links design optimization methods to the massively concurrent computing technology • Emphasizes real-world engineering design practice in the application of optimization methods. Multidisciplinary Design Optimization Supported by Knowledge-Based Engineering is a onestop-shop guide to the state-of-the-art tools in the MDO and KBE disciplines for systems design engineers and managers. Graduate or postgraduate students can use this book to support their design courses, and researchers or developers of computer-aided design methods will find it useful as a wide-ranging reference. Read more About the Author Jaroslaw Sobieszczanski-Sobieski NASA Langley Research Center, USA Alan Morris Cranfield University, UK Michel van Tooren University of South Carolina, USA Read more Multidisciplinary Design Optimization Supported by ... www.amazon.com › ... › Engineering & Transportation › Engineering Buy Multidisciplinary Design Optimization Supported by Knowledge Based Engineering ... Multidisciplinary Design Optimization Supported by ... Goodreads Book reviews ... Jaroslaw Sobieski (Author of Multidisciplinary Design ... https://www.goodreads.com/author/show/8403002.Jaroslaw_Sobieski Jaroslaw Sobieski is the author of Multidisciplinary Design Optimization Supported by Knowledge ... Optimization Supported by Knowledge Based Engineering ... Multidisciplinary design optimization supported by ... www.worldcat.org/title/multidisciplinary-design-optimization... Multidisciplinary design optimization supported by knowledge based engineering. ... Engineering design. Multidisciplinary design optimization. ... Book; library ... Multidisciplinary Design Optimization Supported by ... https://www.paperplus.co.nz/book/multidisciplinary-design..... Drawing > Multidisciplinary Design Optimization Supported by Knowledge Based Engineering. Multidisciplinary Design Optimization Supported by Knowledge Based ... Multidisciplinary design optimization supported by ... www.worldcat.org/title/multidisciplinary-design-optimization... Multidisciplinary design optimization supported by knowledge based engineering. ... Design Optimization supported by Knowledge Based ... reviews: or Search ... Amazon.com: Knowledge-Based Computing: Books www.amazon.com › Search › Knowledge-Based Computing Multidisciplinary Design Optimization Supported by Knowledge Based Engineering Sep 28, ... Engineering & Transportation ...

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