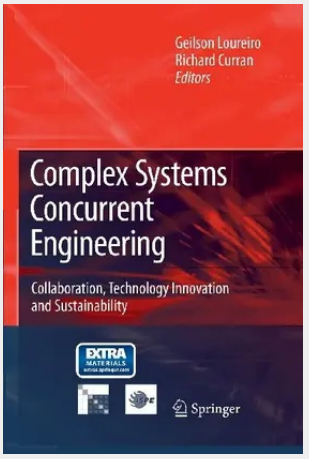
Loureiro / Curran

Complex Systems Concurrent Engineering

Collaboration, Technology Innovation and Sustainability



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Concurrent engineering is well-established as an approach to engineer product parts. However, the concept has much broader application. Complex Systems Concurrent Engineering: Collaboration, Technology Innovation and Sustainability demonstrates how concurrent engineering can be used to benefit the development of complex systems, to produce results that sustain balanced stakeholder satisfaction over time. The collected papers cover all aspects of the sustainable and integrated development of complex systems, such as airplanes, satellites, space vehicles, automobiles and ships.

Complex Systems Concurrent Engineering: Collaboration, Technology Innovation and Sustainability focuses on five major areas: Knowledge and collaboration engineering and management; Systems engineering, analysis, modelling, simulation and optimisation (including value, cost, risk, and schedule issues); Product realisation processes, methods, technologies and techniques; Business, management and organisation issues (product life cycle processes other than development and manufacturing); and, Information modelling, technology and systems.

This volume features the proceedings of the 14th ISPE Conference on Concurrent Engineering, held in São José dos Campos, São Paulo, Brazil, on the 16th - 20th of July 2007. It highlights the application of concurrent engineering to the development of complex systems.

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