

# Concurrent Engineering Fundamentals Integrated

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Concurrent Engineering Fundamentals: Integrated product and process organization  
Innovations in Engineering Education  
FIE '98, Tempe, Arizona  
International Industrial Engineering Conference Proceedings  
Metrics and Case Studies for Evaluating Engineering Designs  
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Understanding Process Integration II. Biren Prasad Biren Prasad Jay Alan Moody Raj Gill Marvin S. Seppanen Michael R. Lindeburg Donald R. Herzog E. R. Krueger American Society for Engineering Education. Conference P. R. Crump

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a thorough original guide to using concurrent engineering principles to develop products that meet customer needs and to do so as quickly and efficiently as possible this book shows how ce encompasses manufacturing competitiveness life cycle management process reengineering cooperative workgroups systems engineering information modeling and product process and organization integration this book also identifies for the first time 25 fundamental ce metrics

and measures these are categorized into four groups simulations and analysis product feasibility and quality assessment design for x ability assessment and process quality assessment the book describes the new process of concurrent function deployment which allows workgroups to work concurrently on conflicting values and compare notes and common checkpoints extensive exercises and illustrations are included throughout managers involved in any type of product development

metrics and case studies for evaluating engineering designs considers four principal metrics for system design design difficulty some projects do not immediately reveal their complexity taking some time to assess the true intricacy of each situation at the outset allows you to plan appropriately from the beginning required resources an accurate understanding of the materials and personnel needed to fulfill your goals is another keystone of good planning systems engineering efficacy as projects get more sophisticated the impact of systems structure becomes more and more important for success developmental environment both technology and organizational politics affect the progress of any project knowing your environment allows you to identify risks before they endanger your project metrics and case studies for evaluating engineering designs applies these metrics to 30 real life case studies drawn from the authors experience in industry and teaching each case illustrates one or more of the essentials in action moving from simple to complex systems the book shows how readers can apply these theories to develop individual metrics tailored to their own organizations this common sense approach does not require readers to understand complicated mathematics or statistical models the authors straightforward style makes this book ideal reading for executives in business and government who need to evaluate complex programs without having a heavy technical background students in all engineering disciplines can also benefit from this practical inventive guide

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