



Rapid One-of-a-kind Product Development: Strategies, Algorithms and Tools (Paperback)

By Shane (S.Q.) Xie, Yiliu Tu

Springer London Ltd, United Kingdom, 2014. Paperback. Condition: New. 2011 ed.. Language: English . Brand New Book ***** Print on Demand *****.Rapid One-of-a-kind Product Development discusses research in the development of new enabling technologies for small and medium companies. Scientific advancements presented include a novel product data modelling scheme to model product design, manufacturability and knowledge under a common data object; customised product development in a distributed environment; and new adaptive scheduling methods for the optimal production of a wide variety of customised products, taking into consideration all of the possible changes from customers and the uncertainties in manufacturing. The book also includes research towards a computer aided customer interface, which allows customer requirements and changes to be processed and integrated with technical designs in real time; adaptive and concurrent CAD methods and algorithms; and product modelling and system integration technologies. The reader will learn how to: * translate customer requirements to technical attributes; * develop new and innovative products to meet customer requirements and expectations; * evaluate and optimise a project design; * design production systems and use them efficiently; and * manage a variety of customised products. Rapid One-of-a-kind Product Development demonstrates how to develop new methods, tools...



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