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14. An Object-Oriented Optimization-based Software for Agile Manufacturing in Process Industries; Chapter 15. Application of Multimedia in Agile Manufacturing; Chapter 16. Computational Intelligence in Agile Manufacturing Engineering; Chapter 17. Computer Applications in Agile Manufacturing; Chapter 18. Secure Communication in Distributed Manufacturing Systems; Part IV - Supply Chain Management in Agile Manufacturing; Chapter 19. Agile Supply Chain Management; Chapter 20. Engineering the Agile Supply Chain Chapter 21. Information Technologies for Virtual Enterprise and Agile Management Chapter 22. Early Supplier Involvement: A Design-Based Sourcing; Chapter 23. Information Technologies in Supply Chain Management; Chapter 24. Enterprise Integration and Management in Agile Organizations; Chapter 25. Agility, Adaptability and Leanness: A Comparison of Concepts and a Study of Practice; Part V- Operations of Agile Manufacturing Systems; Chapter 26. Computer Control of Agile Manufacturing Systems; Chapter 27. Computer Aided Process Planning for Agile Manufacturing Environment Chapter 28. Aggregate Capacity Planning and Production Line Design/Redesign in Agile Manufacturing Chapter 29. The Control Problems of Agile Manufacturing; Chapter 30. Contingency-Driving Autonomous Cellular Manufacturing - Best Practice in the 21st Century; Chapter 31. Role of IT/IS in Physically Distributed Manufacturing Enterprises; Chapter 32. The Method of Successive Assembly System Design Based on Cases Studies within the Swedish Automotive Industry; Part VI - Strategic Approach for Agile Manufacturing; Chapter 33. Reengineering and Agile Manufacturing Development Chapter 34. Corporate Knowledge Management in Agile Manufacturing

Sommario/riassunto

Agile manufacturing is defined as the capability of surviving and prospering in a competitive environment of continuous and unpredictable change by reacting quickly and effectively to changing markets, driven by customer-designed products and services. Critical to successfully accomplishing AM are a few enabling technologies such as the standard for the exchange of products (STEP), concurrent engineering, virtual manufacturing, component-based hierarchical shop floor control system, information and communication infrastructure, etc. The scope of the book is to present the undergrada

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