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Systems; 4.3 Six Sigma Improvement and Training Models; Chapter 5: Design for Six Sigma: Roadmap for Successful Corporate Goals; 5.1 Design for Six Sigma (DFSS) Principles; 5.2 Design for Six Sigma Steps; 5.3 Six Sigma Ergonomics; 5.4 Tools and Techniques; 5.5 Process Management; Chapter 6: Design for Lean/Kaizen Six Sigma; 6.1 Lean Six Sigma and Principles; 6.1.1 Elements of Lean Manufacturing/Production; 6.1.2 Waste Types in Lean Manufacturing; 6.1.3 The Five Lean Themes and Steps; 6.2 The Elements of Lean Performance Measurements
6.2.1 Strategic Measurement Model 6.2.2 Key Elements That Make a Product Successful in the Marketplace; 6.3 Competitive Product Benchmarking Concepts; 6.4 Integration of Kaizen, Lean, and Six Sigma; 6.4.1 Six Sigma, Lean, and Kaizen Principles; 6.4.2 Prolong Production Performance (PPP); 6.4.3 A Lean Concept in Reduction of Lead Time; 6.5 Lean/Kaizen Six Sigma Infrastructure Evolution Tools and Highlights in Summary; 6.5.1 Corporate Commitment; 6.5.2 Steps to Achieve the Six Sigma Goals; 6.6 Mathematical Modeling of Lean Six Sigma Relations; 6.6.1 Lean Six Sigma Experimental Design
Chapter 7: Roles and Responsibilities to Lean Six Sigma Philosophy and Strategy 7.1 The Roadmap to Lean Six Sigma Philosophy and Strategy; 7.2 Creation of Six Sigma Infrastructure; 7.2.1 Executive Sponsor; 7.2.2 Champion; 7.2.3 Master Black Belt; 7.2.4 Black Belt (Team Leader); 7.2.5 Green Belt (Team Participant); 7.2.6 Team Recognition/Compensation; Chapter 8: Road Map to Lean Six Sigma Continuous Improvement Engineering Strategies; 8.1 Six-Sigma Continuous Improvement Engineering; 8.2 Definition and Measurement; 8.2.1 Phase 0: Process Definition/Project Selection 8.2.2 Phase I: Process Measurement

Sommario/riassunto

Six Sigma is a management program that provides tools that help manufacturers obtain efficient, stream-lined production to coincide with ultimate high quality products. Lean Six Sigma will show how the well-regarded analytical tools of Six Sigma quality control can be successfully brought into the well-established models of "lean manufacturing," bringing efficient, stream-lined production and high quality product readily together. This book offers a thorough, yet concise introduction to the essential mathematics of Six Sigma, with solid case examples from a variety of industrial settings
