

# CONCURRENT ENGINEERING DESIGN

*Integrating the Best Practices  
for Process Improvement*

**Landon C. G. Miller**



Society of  
Manufacturing  
Engineers

# Table of Contents

## **Section I: The Business Environment Surrounding Concurrent Engineering Design**

- 1. An Introduction to Concurrent Engineering Design.... 3
- 2. Why Concurrent Engineering Design..... 25
- 3. Concurrent Engineering Can Create  
a Competitive Advantage..... 51
- 4. Concurrent Engineering Design as a  
World Class Manufacturing Enabler..... 73

## **Section II: Concurrent Engineering Design Business Process Framework**

- 5. Concurrent Engineering Design's  
Process Management..... 101
- 6. Concurrent Engineering Design's  
Design Process..... 137
- 7. Concurrent Engineering Design's  
Manufacturability Process..... 183

## **Section III: Concurrent Engineering Design Architectural and Implementation Framework**

- 8. Concurrent Engineering Design's  
Automated Infrastructure Support..... 225
- 9. Concurrent Engineering Design Implementation  
Planning and Strategies..... 259

- Appendix A: Self-evaluation Guides..... 297**
- Appendix B: Glossary..... 303**
- Index..... 315**