

CONTENTS

1. Introduction	1
2. Electronic Components	39
3. Printed Wiring Board Design and Fabrication	101
4. Electronic Assemblies	153
5. Interconnections and Connectors	239
6. Layout	293
7. Thermal Design Analysis	385
8. Thermomechanical Analysis and design	477
9. Design for Vibration and Shock	529
10. Humidity and Corrosion Analysis and Design	579
11. Design for Reliability	617
12. Electronic Materials and Properties	727
Appendix A: Acronyms Used in Electronics	791
Appendix B: Glossary of Hybrid Microcircuits Packaging Terms	799
Appendix C: Standards and Specifications for Microelectronics	839
Appendix D: Standards and Specifications for PCBs and PWBs	851
Appendix E: Unit Conversion Tables	855
Index	861