

Mechanical Design for Electronics Production

By
JOHN
M. CARROLL



McGraw-Hill Book Company

Mechanical Design For Electronics Production

Bernard S. Matisoff



Mechanical Design For Electronics Production:

Mechanical Design for Electronics Production John Millar Carroll, 1956

Handbook Of Electronics Packaging

Design and Engineering Bernard S. Matisoff, 2012-12-06 The Handbook of Electronics Packaging Design and Engineering has been written as a reference source for use in the packaging design of electronics equipment. It is designed to provide a single convenient source for the solution of recurring design problems. The primary consideration of any design is that the end product meet or exceed the applicable product specifications. The judicious use of uniform design practices will realize the following economies and equipment improvements: Economics of design. Uniform design practices will result in less engineering and design times and lower costs. They will also reduce the number of changes that may be required due to poor reliability, maintainability, or producibility. Improved design. Better designs with increased reliability, maintainability, and producibility will result from the use of uniform design practices. Production economies. Uniform designs employing standard available tools, materials, and parts will result in the cost control of manufacturing. The Handbook is intended primarily for the serious student of electronics packaging and for those engineers and designers actively engaged in this vital and interesting profession. It attempts to present electronics packaging as it is today. It can be used as a training text for instructional purposes and as a reference source for the practicing designer and engineer.

NEL Reliability Bibliography

United States. Navy. Electronics Laboratory, 1956

Mechanical design for electronics product Jerry Wang, 2019-10-22 This is a summary of my over 15 years work as a mechanical design engineer in electronics industry. The contents include: The task design considerations, developing steps of mechanical design for electronics product, The frequent using mechanical components design guideline, Specific function design such as seal EMC screw torque definition and calculation, Tolerance analysis, Preliminary thermal distribution design, Other topics such as DFM failure root cause analysis etc. Components design guideline is the major part of this book. The components are categorized according to manufacturing method such as sheet metal, plastic injection, die casting, Aluminium extrusion, over mold, rubber keypad and standards components selection. In each individual guideline, the typical structure is used to include the main items of: Characters about advantages and disadvantages, Brief description of typical manufacturing process and related equipment, Frequent using material, Structure design considerations, Typical features, Tolerance, Frequent defects and analysis. The aim of this book is to provide guide and support to the junior mechanical design engineers in electronics industry and I assume the readers have mechanical knowledge and reasonable design practice. So I excluded the massive basics that can be found from popular manuals or standards to make the book brief and wish could bring the readers practical help.

Design for Excellence in Electronics Manufacturing Cheryl Tulkoff, Greg Caswell, 2021-03-30 DESIGN FOR EXCELLENCE IN ELECTRONICS MANUFACTURING An authoritative guide to optimizing design for manufacturability and reliability from a team of experts. Design for Excellence in Electronics Manufacturing is a comprehensive state-of-the-art book that covers design and reliability of electronics. The authors noted

experts on the topic explain how using the DfX concepts of design for reliability design for manufacturability design for environment design for testability and more reduce research and development costs and decrease time to market and allow companies to confidently issue warranty coverage By employing the concepts outlined in Design for Excellence in Electronics Manufacturing engineers and managers can increase customer satisfaction market share and long term profits In addition the authors describe the best practices regarding product design and show how the practices can be adapted for different manufacturing processes suppliers use environments and reliability expectations This important book Contains a comprehensive review of the design and reliability of electronics Covers a range of topics establishing a reliability program design for the use environment design for manufacturability and more Includes technical information on electronic packaging discrete components and assembly processes Shows how aspects of electronics can fail under different environmental stresses Written for reliability engineers electronics engineers design engineers component engineers and others Design for Excellence in Electronics Manufacturing is a comprehensive book that reveals how to get product design right the first time

Concurrent Engineering and Design for Manufacture of Electronics Products Sammy G. Shina, 2012-12-06 This book is intended to introduce and familiarize design production quality and process engineers and their managers to the importance and recent developments in concurrent engineering CE and design for manufacturing DFM of new products CE and DFM are becoming an important element of global competitiveness in terms of achieving high quality and low cost products The new product design and development life cycle has become the focus of many manufacturing companies as a road map to shortening new product introduction cycles and to achieving a quick ramp up of production volumes Customer expectations have increased in demanding high quality functional and user friendly products There is little time to waste in solving manufacturing problems or in redesigning products for ease of manufacture since product life cycles have become very short because of technological breakthroughs or competitive pressures Another important reason for the increased attention to DFM is that global products have developed into very opposing roles either they are commodities with very similar features capabilities and specifications or they are very focused on a market niche In the first case the manufacturers are competing on cost and quality and in the second they are in race for time to market DFM could be a very important competitive weapon in either case for lowering cost and increasing quality and for increasing production ramp up to mature volumes

Integrating Design and Manufacturing for Competitive Advantage Gerald I. Susman, 1992 With more emphasis being placed on the cost and quality of new products and on reducing the lead time to develop them attention is turning to the increasingly important topic of design for manufacturing DFM This involves the collaboration among research and development manufacturing and other company functions and is aimed at accelerating the new product development process from product conception to market introduction A company can create a competitive advantage for itself by managing the process and its related organizational dynamics effectively This collection of essays

focuses on the development of strategic capabilities through use of DFM tools and practices the role of DFM in specific product development phases and the social political and cultural context within which DFM is introduced *Robust Electronic Design Reference Book: no special title* John R. Barnes,2004 If you design electronics for a living you need Robust Electronic Design Reference Book Written by a working engineer who has put over 115 electronic products into production at Sycor IBM and Lexmark Robust Electronic Design Reference covers all the various aspects of designing and developing electronic devices and systems that Work Are safe and reliable Can be manufactured tested repaired and serviced May be sold and used worldwide Can be adapted or enhanced to meet new and changing requirements Workmanship and Design Practices for Electronic Equipment United States. Bureau of Naval Weapons,1962 *Tool and Manufacturing Engineers Handbook Desk Edition* W. H. Cubberly,Ramon Bakerjian,1989 The TMEH Desk Edition presents a unique collection of manufacturing information in one convenient source Contains selected information from TMEH Volumes 1 5 over 1 200 pages of manufacturing information A total of 50 chapters cover topics such as machining forming materials finishing coating quality control assembly and management Intended for daily use by engineers managers consultants and technicians novice engineers or students Mechanical Design and Manufacturing of Electric Motors Wei Tong,2022-05-20 This Second Edition of Mechanical Design and Manufacturing of Electric Motors provides in depth knowledge of design methods and developments of electric motors in the context of rapid increases in energy consumption and emphasis on environmental protection alongside new technology in 3D printing robots nanotechnology and digital techniques and the challenges these pose to the motor industry From motor classification and design of motor components to model setup and material and bearing selections this comprehensive text covers the fundamentals of practical design and design related issues modeling and simulation engineering analysis manufacturing processes testing procedures and performance characteristics of electric motors today This Second Edition adds three brand new chapters on motor breaks motor sensors and power transmission and gearing systems Using a practical approach with a focus on innovative design and applications the book contains a thorough discussion of major components and subsystems such as rotors shafts stators and frames alongside various cooling techniques including natural and forced air direct and indirect liquid phase change and other newly emerged innovative cooling methods It also analyzes the calculation of motor power losses motor vibration and acoustic noise issues and presents engineering analysis methods and case study results While suitable for motor engineers designers manufacturers and end users the book will also be of interest to maintenance personnel undergraduate and graduate students and academic researchers *Advances in Electronic Circuit Packaging* Lawrence L. Rosine,2013-12-11 *Leading the Web in Concurrent Engineering* Parisa Ghodous,Rose Dieng-Kuntz,Geilson Loureiro,2006 Contains papers on the advances in Concurrent Engineering research and applications This book focuses on developing methodologies techniques and tools based on Web technologies required to support the key objectives of Concurrent Engineering , **Thesaurus of ERIC**

Descriptors Educational Resources Information Center (U.S.),1969 Revised edition of a dictionary of terms used in connection with library and documentation work in the broad field of education **Postsecondary Sourcebook for Community Colleges, Technical, Trade, and Business Schools Midwest/West Edition** ,2010-12 **Mechanical Engineer's Reference Book** Edward H. Smith,2013-09-24 Mechanical Engineer s Reference Book 12th Edition is a 19 chapter text that covers the basic principles of mechanical engineering The first chapters discuss the principles of mechanical engineering electrical and electronics microprocessors instrumentation and control The succeeding chapters deal with the applications of computers and computer integrated engineering systems the design standards and materials properties and selection Considerable chapters are devoted to other basic knowledge in mechanical engineering including solid mechanics tribology power units and transmission fuels and combustion and alternative energy sources The remaining chapters explore other engineering fields related to mechanical engineering including nuclear offshore and plant engineering These chapters also cover the topics of manufacturing methods engineering mathematics health and safety and units of measurements This book will be of great value to mechanical engineers **Economics of Electronic Design, Manufacture and Test** M. Abadir,T. Ambler,2013-06-29 The general understanding of design is that it should lead to a manufacturable product Neither the design nor the process of manufacturing is perfect As a result the product will be faulty will require testing and fixing Where does economics enter this scenario Consider the cost of testing and fixing the product If a manufactured product is grossly faulty or too many of the products are faulty the cost of testing and fixing will be high Suppose we do not like that We then ask what is the cause of the faulty product There must be something wrong in the manufacturing process We trace this cause and fix it Suppose we fix all possible causes and have no defective products We would have eliminated the need for testing Unfortunately things are not so perfect There is a cost involved with finding and eliminating the causes of faults We thus have two costs the cost of testing and fixing we will call it cost 1 and the cost of finding and eliminating causes of faults call it cost 2 Both costs in some way are included in the overall cost of the product If we try to eliminate cost 1 cost 2 goes up and vice versa An economic system of production will minimize the overall cost of the product Economics of Electronic Design Manufacture and Test is a collection of research contributions derived from the Second Workshop on Economics of Design Manufacture and Test written for inclusion in this book Directory of Public Schools Offering Technical Education Programs, Fiscal Year 1969 United States. Office of Education,1969 *Directory of Public Schools Offering Technical Education Programs, Fiscal Year 1969* United States. Division of Vocational and Technical Education,1970

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