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Making the product robust to variation is the driving force behind designing capable and reliable products, lessens the need for inspection and can reduce the costs associated with product failure Variability must become the responsibility of the designer in order to achieve these goals.

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'Designing Capable and Reliable Products' is split into three parts. The first section offers an introduction to the importance of quality and reliability in product development. The second section offers an introduction to capable design, focusing on producing designs that meet quality standards and also looks at linking component manufacture and its process capability with failure rates.

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Designing capable and reliable products by Booker, J. D. ...

This book offers an introduction to the importance of capability, quality and reliability in product

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This work offers an introduction to the importance of quality and reliability in product development, and to capable design, focusing on producing designs that meet quality standards. It looks at reliable design, introducing the probabilistic concept of reliability into the product design.

Practical methods for analysing mechanical designs with respect to their capability and reliability are combined in this volume. The book is written with postgraduate students and professional engineers in mind.

Design Engineering Manual offers a practical guide to the key principles of design engineering. It features a compilation of extracts from several books within the range of Design Engineering books in the Elsevier collection. The book is organized into 11 sections. Beginning with a review of the processes of product development and design, the book goes on to describe systematic ways of choosing materials and processes. It details the properties of modern metallic alloys including commercial steels, cast irons, superalloys, titanium alloys, structural intermetallic compounds, and aluminum alloys. The book explains the human/system interface; procedures to assess the risks associated with job and task characteristics; and environmental factors that may be encountered at work and affect behavior. Product liability and safety rules are discussed. The final section on design techniques introduces the design process from an inventors perspective to a more formal model called total design. It also deals with the behavior of plastics that influence the application of practical and complex engineering equations and analysis in the design of products. Provides a single-source of critical information to the design engineer, saving time and therefore money on a particular design project Presents both the fundamentals and advanced topics and also the latest information in key aspects of the design process Examines all aspects of the design process in one concise and accessible volume

This monograph presents state-of-the-art knowledge in wood manufacturing design with a special focus on the elaboration of functional relationships. The authors transfer and apply the method of functional relationships to challenges in wood manufacturing, and the book contains many worked examples which help the reader to better understand the presented method. The topical spectrum includes machining processes, energy consumption, surface quality, hardness and durability properties as well as aesthetical properties. The target audience primarily comprises research experts and practitioners in wood manufacturing, but the book may also be beneficial for graduate students alike.

This practical text is an essential source of information for those wanting to know how to deal with the variability that exists in every engineering situation. Using typical engineering data, it presents the basic statistical methods that are relevant, in simple numerical terms. In addition, statistical terminology is translated into basic English. In the past, a lack of communication between engineers and statisticians, coupled with poor practical skills in quality management and statistical engineering, was damaging to products and to the economy. The disastrous consequence of setting tight tolerances without regard to the statistical aspect of process data is demonstrated. This book offers a solution, bridging the gap between statistical science and engineering technology to ensure that the engineers of today are better equipped to serve the manufacturing industry. Inside, you will find coverage on: the nature of variability, describing the use of formulae to pin down sources of variation; engineering design, research and development, demonstrating the methods that help prevent costly mistakes in the early stages of a new product; production, discussing the use of control charts, and; management and training, including directing and controlling the quality function. The Engineering section of the index identifies the role of engineering technology in the service of industrial quality management. The Statistics section identifies points in the text where statistical terminology is used in an explanatory context. Engineers working on the design and manufacturing of new products find this book invaluable as it develops a statistical method by which they can anticipate and resolve quality problems before launching into production. This book appeals to students in all areas of engineering and also managers concerned with the quality of manufactured products. Academic engineers can use this text to teach their students basic practical skills in quality management and statistical engineering, without getting involved in the complex mathematical theory of probability on which statistical science is dependent.

Photovoltaic technology - or the direct conversion of light into electricity - is the fastest growing means of electricity generation today, however it is generally used outdoors. Relatively little attention has been focused on the many obstacles to overcome when designing efficient indoor products. As a result, indoor products are more often than not limited to low power. Designing Indoor Solar Products bridges this gap by showing where AES (Ambient Energy Systems) based on photovoltaic cells may be used for higher power devices. Motivated by both financial and ecological arguments, this book: Co-ordinates a wide-reaching range of scientific information regarding photovoltaic technologies and their application to indoor spaces. Analyses power management, power availability, technological selection and design methodologies. Uses real-life examples and case studies to demonstrate the arguments made. Presents information in such a way as to make it accessible even to engineers with basic electrical knowledge. Designing Indoor Solar Products pulls together a wealth of information on photovoltaic technologies and their applications. It will be of practical interest to engineers and designers of sensor systems planning on using photovoltaic technology for power, whilst the theoretical approach will appeal to those in academia in the related areas of environmental engineering, sustainable development as well as building and product design.

This book constitutes the thoroughly refereed post-proceedings of the 10th International Conference on Computer Supported Cooperative Work in Design, CSCWD 2006, held in Nanjing, China in May 2006. Among topics covered are CSCW techniques and methods, collaborative design, collaborative manufacturing and enterprise collaboration, Web services, knowledge management, security and privacy in CSCW systems, workflow management, and e-learning.

To ensure product reliability, an organization must follow specific practices during the product development process that impact reliability. The second edition of the bestselling Product Reliability, Maintainability, and Supportability Handbook helps professionals identify the shortcomings in the reliability practices of their organizations and empowers them to take actions to overcome them. The book begins by discussing product effectiveness and its related functions, presents the mathematical theory for reliability, and introduces statistical inference concepts as ways to analyze probabilistic models from observational data. Later chapters introduce basic types of probability distributions; present the concepts of confidence interval; focus on reliability assessment; and examine software reliability, quality, and safety. Use FMMEA to identify failure mechanisms Reflecting the latest developments in the field, the book introduces a new methodology known as failure modes, mechanisms, and effects analysis (FMMEA) to identify potential failure mechanisms. Shifting to a practical stance, the book delineates steps that must be taken to develop a product that meets reliability objectives. It describes how to combine reliability information from parts and subsystems to compute system level reliability, presents methods for evaluating reliability in fault-tolerant conditions, and describes methods for modeling and analyzing failures of repairable products. The text discusses reliability growth, accelerated testing, and management of a continuous improvement program; analyzes the influence of reliability on logistics support requirements; shows how to assess overall product effectiveness; and introduces the concepts of process capability and statistical process control techniques. New Topics in the Second Edition Include: Failure Modes, Mechanisms, and Effects Analysis Confidence Interval on Reliability Metrics and their Relationships with Measures of Product Quality Process Control and Process Capability and their Relationship with Product Reliability System Reliability, including Redundancy

An Integrated Approach to Product Development Reliability Engineering presents an integrated approach to the design, engineering, and management of reliability activities throughout the life cycle of a product, including concept, research and development, design, manufacturing, assembly, sales, and service. Containing illustrative guides that include worked problems, numerical examples, homework problems, a solutions manual, and class-tested materials, it demonstrates to product development and manufacturing professionals how to distribute key reliability practices throughout an organization. The authors explain how to integrate reliability methods and techniques in the Six Sigma process and Design for Six Sigma (DFSS). They also discuss relationships between warranty and reliability, as well as legal and liability issues. Other topics covered include: Reliability engineering in the 21st Century Probability life distributions for reliability analysis Process control and process capability Failure modes, mechanisms, and effects analysis Health monitoring and prognostics Reliability tests and reliability estimation Reliability Engineering provides a comprehensive list of references on the topics covered in each chapter. It is an invaluable resource for those interested in gaining fundamental knowledge of the practical aspects of reliability in design, manufacturing, and testing. In addition, it is useful for implementation and management of reliability programs.

Safety, Reliability and Risk Analysis. Theory, Methods and Applications contains the papers presented at the joint ESREL (European Safety and Reliability) and SRA-Europe (Society for Risk Analysis Europe) Conference (Valencia, Spain, 22-25 September 2008). The book covers a wide range of topics, including: Accident and Incident Investigation; Crisis

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