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Reliability is a key concern for second-hand car buyers, with price, practicality, technology, style and safety. Here are the 10 most reliable used cars.

Most reliable used cars - Admiral
Availability of greater evidence-base on validity and reliability of non-invasive technologies is expected to drive clinical trust and address the unmet needs to measure hemodynamic parameters early in the care continuum, in a safe way to plan the treatment course. While continuous non-invasive technologies for beat-to-beat monitoring like ...

Reliability and Failure of Electronic Materials and Devices is a well-established and well-regarded reference work offering unique, single-source coverage of most major topics related to the performance and failure of materials used in electronic devices and electronics packaging. With a focus on statistically predicting failure and product yields, this book can help the design engineer, manufacturing engineer, and quality control engineer all better understand the common mechanisms that lead to electronics materials failures, including dielectric breakdown, hot-electron effects, and radiation damage. This new edition adds cutting-edge knowledge gained both in research labs and on the manufacturing floor, with new sections on plastics and other new packaging materials, new testing procedures, and new coverage of MEMS devices. Covers all major types of electronics materials degradation and their causes, including dielectric breakdown, hot-electron effects, electrostatic discharge, corrosion, and failure of contacts and solder joints New updated sections on "failure physics," on mass transport-induced failure in copper and low-k dielectrics, and on reliability of lead-free/reduced-lead solder connections New chapter on testing procedures, sample handling and sample selection, and experimental design Coverage of new packaging materials, including plastics and composites

Adhesives are widely used in the manufacture and assembly of electronic circuits and products. Generally, electronics design engineers and manufacturing engineers are not well versed in adhesives, while adhesion chemists have a limited knowledge of electronics. This book bridges these knowledge gaps and is useful to both groups. The book includes chapters covering types of adhesive, the chemistry on which they are based, and their properties, applications, processes, specifications, and reliability. Coverage of toxicity, environmental impacts and the regulatory framework make this book particularly important for engineers and managers alike. The third edition has been updated throughout and includes new sections on nanomaterials, environmental impacts and new environmentally friendly "green" adhesives. Information about regulations and compliance has been brought fully up-to-date. As well as providing full coverage of standard adhesive types, Licari explores the most recent developments in fields such as: • Tamper-proof adhesives for electronic security devices. • Bio-compatible adhesives for implantable medical devices. • Electrically conductive adhesives to replace toxic tin-lead solders in printed circuit assembly – as required by regulatory regimes, e.g. the EU's Restriction of Hazardous Substances Directive or RoHS (compliance is required for all products placed on the European market). • Nano-fillers in adhesives, used to increase the thermal conductivity of current adhesives for cooling electronic devices. A complete guide for the electronics industry to adhesive types, their properties and applications – this book is an essential reference for a wide range of specialists including electrical engineers, adhesion chemists and other engineering professionals Provides specifications of adhesives for particular uses and outlines the processes for application and curing – coverage that is of particular benefit to design engineers, who are charged with creating the interface between the adhesive material and the microelectronic device Discusses the respective advantages and limitations of different adhesives for a varying applications, thereby addressing reliability issues before they occur and offering useful information to both design engineers and Quality Assurance personnel

A unique volume, Reliability for the Technologies is designed to promote understanding of reliability's function in the achievement of safe, reliable technology. It represents one of the finest books yet published on this current and urgent subject, and it is of equal use to anyone involved on any level of technology product life. Uses four distributions to determine component reliability and confidence limits. Expands on the bathtub analysis to include two limits: design requirements and repair and maintenance. Shows the derivation the single-term binomial formula from basic probability theory.

The 2006 Asian International Workshop on Advanced Reliability Modeling (AIWARM) is the second symposium in a series of biennial workshops for the dissemination of state-of-art research and the presentation of practice in reliability and maintenance engineering in Asia. It brings together researchers and engineers from not only Asian countries but also all over world to discuss the state of research and practice in dealing with both reliability issues at the system design phase and maintenance issues at the system operation phase. The theme of AIWARM 2006 is "reliability testing and improvement". The contributions in this volume cover all the main topics in reliability and maintenance engineering, providing an in-depth presentation of theory and practice.

This book includes the original, peer reviewed research papers from the conference. Proceedings of the 2nd International Conference on Intelligent Technologies and Engineering Systems (ICTES2013), which took place on December 12-14, 2013 at Cheng Shiu University in Kaohsiung, Taiwan. Topics covered include: laser technology, wireless and mobile networking, lean and agile manufacturing, speech processing, microwave dielectrics, intelligent circuits and systems, 3D graphics, communications and structure dynamics and control.

Gets professionals quickly on-line with all the crucial designconcepts and skills they need to dramatically improve themaintainability of their products or systems Maintainability is a practical, step-by-step guide to implementinga comprehensive maintainability program within your organization'sdesign and development function. From program scheduling,organizational interfacing, cost estimating, and supplieractivities, to maintainability prediction, task analysis, formaldesign review, and maintainability tests and demonstrations, idescribes all the planning and organizational aspects ofmaintainability for projects under development and * Schools readers in state-of-the-art maintainability designtechniques * Demonstrates methods for quantitatively measuring maintainabilitat every stage of the development process * Shows how to increase effectiveness while reducing life-cyclecosts of already existing systems or products * Features numerous case studies, sample applications, and practiceexercises * Functions equally well as a professional reference and aclassroom text Independent cost analysis studies indicate that an inordinatelylarge percentage of the overall life-cycle cost of mostsystems/products is currently taken up by maintenance and support.In fact, for many large-scale systems, maintenance and support havebeen shown to account for as much as 60% to 75% of overalllife-cycle costs. At a time of fierce global competition, long-termost effectiveness is a major competitive advantage thatmanufacturers simply cannot afford to underestimate. Clearly then,to remain competitive in today's international marketplace,companies must institute programs for reducing system maintenanceand support costs-- comprehensive programs that are an integralpart of the design and development process from its earliestconceptual stages. This book shows you how to implement such a program within yourorganization's design and development function. From programscheduling, organizational interfacing, cost estimating, andsupplier activities, to maintainability prediction, task analysis,formal design review, and maintainability tests and demonstrations,it describes all the planning and organizational aspects ofmaintainability for projects under development while schooling youon the use of the full range of proven design techniques—includingmethods for quantitatively measuring maintainability at every stageof the development process. The authors also clearly explain howthe principles and practices outlined in Maintainability can beapplied to the evaluation of systems/products now in use both toincrease their effectiveness and reduce long-term costs. While theoretical aspects of maintainability are discussed, theauthors' main purpose in writing this book is to help getprofessionals quickly on-line with the essential maintainabilityconcepts and skills. Hence, in addition to clarity of presentationand a rational hierarchical format, Maintainability features manycase studies and sample applications that help to clarify thepoints covered, and numerous practice exercises that help engineersto test their mastery of the concepts and techniques covered. Maintainability is an invaluable professional tool for engineersfrom all disciplines who are involved with the design, testing,prototyping, manufacturing, and maintenance of products andsystems. It also serves as a superior course book forgraduate-level programs in those disciplines.

Traditionally, the way to test a product's reliability was to build it--and then try to break it. As systems and technologies improved, TAAF (Test, Analyze and Fix) methodologies were developed and adopted. In today's global economy, with its short, technologically-intense product life cycles, TAAF cannot suffice. Reliability can no longer be a step or a series of steps in product development; it is something that needs to be acknowledged up front and built into the product from its very conception. Reliability, in other words, must be 'designed in.' Product developers now have many tools--software and hardware--at their disposal for building reliability in from the get go. From the organizational point of view, what better way to design in reliability than to make designers themselves responsible for the reliability of their designs? As "Mike Silverman" explains in "How Reliable is Your Product?" this is why the role of the reliability engineer is changing to one of mentor. Product developers are now responsible for going out and finding the best testing tools and then training the designers on their use, so that designers factor and build in reliability at every stage of product design. Mike has focused on reliability throughout his 25-year career, and has observed the position of reliability in the organization evolve. In this book, he condenses his expertise and experience into a volume of immense practical worth to the engineering and engineering management communities including designers, manufacturing engineers and reliability/quality engineers. Among other things, Mike discusses how reliability fits, or should fit, within the product design cycle. He provides a high-level overview of reliability techniques available to engineers today. He lucidly discusses the design of experiments and the role of failure management. With case studies and narratives from personal experience, Mike discusses optimal ways to utilize different reliability techniques. He highlights common errors of judgment, missteps and sub-optimal decisions that are often made within organizations on the path to total reliability. Why "How Reliable is Your Product?" "Mike Silverman" has delivered what few have done before--a comprehensive yet succinct overview of the field of reliability engineering and testing. Engineers and engineering managers will find much in this book of immediate, practical value.

Written by reliability data experts, the book gives plant managers and supervisors the guidance they need to collect, and use with confidence, process equipment reliability data for risk-based decisions. Focusing on the process industries, it provides the protocol and techniques to collect and organize high quality plant performance, maintenance, and repair data from your own operations, and includes methods and examples on how the data can be converted into useful information for engineering, maintenance, safety, and loss prevention. This data can be used for: facility reliability/availability assessments; making decisions on the need for redundant systems; improving equipment designs; selecting the best equipment for specific tasks; estimating required work force; benchmarking current efforts both frequency and time; integrating predictive and preventive maintenance effort; integrating shutdowns with production needs; quantifying risks; and minimizing human reliability issues.

These are the proceedings of the 2nd International Conference on Engineering Sciences and Technologies (ESaT 2016), held from 29th of June until the 1st of July 2016 in the scenic High Tatras Mountains, Tatranská Matliare, Slovak Republic. After the successful implementation and excellent feedback of the first international conference ESaT 2015, ESaT 2016 was organized under the auspices of the Faculty of Civil Engineering, Technical University of Košice, Slovak Republic in collaboration with the University of Miskolc, Hungary. The conference focused on a wide spectrum of topics and subject areas in civil engineering sciences. The proceedings bringing new and original advances and trends in various fields of engineering sciences and technologies that acost a wide range of academics, scientists, researchers and professionals from universities and practice. The authors of the articles originate from different countries around the world guaranteeing the importance, topicality, quality and level of presented results.

This accessibly written book introduces readers to DNA—one of the most important technologies for the manipulation of all forms of life, from simple bacteria to plants and animals. It also addresses the most important social, ethical, political, economic, and other issues raised by this form of technology. • Provides an engaging and readable introduction to the topic of DNA technology that enables anyone—even readers with a minimal background in science—to understand the science and technology involved in many of today's key social issues • Offers a thoroughly updated version of the information and topics first presented in the successful first edition of this book • Presents an extensive range of reference materials that include an extended annotated bibliography and extensive endnotes • Includes a Documents and Data chapter that provides excerpts from important laws, court cases, government reports, and other primary sources

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