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KEY=METAL - PALOMA BRANDT

Fractography of Modern Engineering Materials Composites and Metals : a Symposium ASTM International Fatigue and Fracture Understanding the Basics ASM International "This book emphasizes the physical and practical aspects of fatigue and fracture. It covers mechanical properties of materials, differences between ductile and brittle fractures, fracture mechanics, the basics of fatigue, structural joints, high temperature failures, wear, environmentally-induced failures, and steps in the failure analysis process."--publishers website. Mechanical Engineering The Journal of the American Society of Mechanical Engineers "History of the American society of mechanical engineers. Preliminary report of the committee on Society history," issued from time to time, beginning with v. 30, Feb. 1908. Metals Abstracts Modern Metals ASTM Special Technical Publication Army R, D & A. Chemical Engineering Catalog Mechanical Fatigue of Metals Experimental and Simulation Perspectives Springer This volume contains the proceedings of the XIX International Colloquium on Mechanical Fatigue of Metals, held at the Faculty of Engineering of the University of Porto, Portugal, 5-7 September 2018. This International Colloquium facilitated and encouraged the exchange of knowledge and experiences among the different communities involved in both basic and applied research in the field of the fatigue of metals, looking at the problem of fatigue exploring analytical and numerical simulative approaches. Fatigue damage represents one of the most important types of damage to which structural materials are subjected in normal industrial services that can finally result in a sudden and unexpected abrupt fracture. Since metal alloys are still today the most used materials in designing the majority of components and structures able to carry the highest service loads, the study of the different aspects of metals fatigue attracts permanent attention of scientists, engineers and designers. Scientific and Technical Aerospace Reports Biaxial and Multiaxial Fatigue (EGF 3) John Wiley & Sons Incorporated The 36 paper spresented in this volume were presented at the second international conference on biaxial/multiaxial fatigue. Technometrics Nuclear Science Abstracts The Journal of the Iron and Steel Institute Includes the institute's Proceedings. Metal Progress Materials Selection in Mechanical Design Pergamon New materials enable advances in engineering design. This book describes a procedure for material selection in mechanical design, allowing the most suitable materials for a given application to be identified from the full range of materials and section shapes available. A novel approach is adopted not found elsewhere. Materials are introduced through their properties; materials selection charts (a new development) capture the important features of all materials, allowing rapid retrieval of information and application of selection techniques. Merit indices, combined with charts, allow optimisation of the materials selection process. Sources of material property data are reviewed and approaches to their use are given. Material processing and its influence on the design are discussed. The book closes with chapters on aesthetics and industrial design. Case studies are developed as a method of illustrating the procedure and as a way of developing the ideas further. Journal NASA Tech Briefs American Scientific Books The Theory of Critical Distances A New Perspective in Fracture Mechanics Elsevier Critical distance methods are extremely useful for predicting fracture and fatigue in engineering components. They also represent an important development in the theory of fracture mechanics. Despite being in use for over fifty years in some fields, there has never been a book about these methods – until now. So why now? Because the increasing use of computer-aided stress analysis (by FEA and other techniques) has made these methods extremely easy to use in practical situations. This is turn has prompted researchers to re-examine the underlying theory with renewed interest. The Theory of Critical Distances begins with a general introduction to the phenomena of mechanical failure in materials: a basic understanding of solid mechanics and materials engineering is assumed, though appropriate introductory references are provided where necessary. After a simple explanation of how to use critical distance methods, and a more detailed exposition of the methods including their history and classification, the book continues by showing examples of how critical distance approaches can be applied to predict fracture and fatigue in different classes of materials. Subsequent chapters include some more complex theoretical areas, such as multiaxial loading and contact problems, and a range of practical examples using case studies of real engineering components taken from the author’s own consultancy work. The Theory of Critical Distances will be of interest to a range of readers, from academic researchers concerned with the theoretical basis of the subject, to industrial engineers who wish to incorporate the method into modern computer-aided design and analysis. Comprehensive collection of published data, plus new data from the author's own laboratories A simple 'how-to-do-it' exposition of the method, plus examples and case studies Detailed theoretical treatment Covers all classes of materials: metals, polymers, ceramics and composites Includes fracture, fatigue, fretting, size effects and multiaxial loading Technical Data Digest Confidential Documents Government Reports Announcements & Index Modern Plastics Encyclopedia Iron Age The Iron Age The International Encyclopedia of Science and Technology Oxford University Press, USA Covers various aspects of science and technology, including natural history, earth science, physics, chemistry, astronomy, mathematics, and information technology New Technical Books Monthly List of Russian Accessions Foundry Management & Technology Metals Abstracts Index Modern Railway Track The Illustrated Encyclopedia of Modern Science Globe Encyclopaedia of Universal Information The Globe encyclopaedia of universal information, ed. by J.M. Ross Machine Design American Machinist Damage Mechanisms and Life Assessment of High Temperature Components ASM International Aerospace Engineering Popular Science Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.