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KEY=STUDY - BENTLEY MILA

The Shock and Vibration Digest

A Publication of the Shock and Vibration Information Center, Naval Research Laboratory

Paper

Hydrodynamics of High-Speed Marine Vehicles

Cambridge University Press This 2006 book discusses the three main categories of high-speed marine vehicles - vessels supported by submerged hulls, air cushions or foils.

The SAE Journal

Federal Science Progress

Japanese Technical Abstracts

Interdisciplinary Design: Proceedings of the 21st CIRP Design Conference

Mary Kathryn Thompson

Antarctic Marine Geology

Cambridge University Press A comprehensive single-authored book to introduce students and researchers to the marine geology of the Antarctic.

Quality Control, Robust Design, and the Taguchi Method

Springer Science & Business Media In 1980, I received a grant from Aoyama-gakuin university to come to the United States to assist American Industry improve the quality of their products. In a small way this was to repay the help the US had given Japan after the war. In the summer of 1980, I visited the AT&T Bell Laboratories Quality Assurance Center, the organization that founded modern quality control. The result of my first summer at AT&T was an experiment with an orthogonal array design of size 18 (OA18) for optimization of an LSI fabrication process. As a measure of quality, the quantity "signal-to-noise" ratio was to be optimized. Since then, this experimental approach has been named "robust design" and has attracted the attention of both engineers and statisticians. My colleagues at Bell Laboratories have written several expository articles and a few theoretical papers on robust design from the viewpoint of statistics. Because so many people have asked for copies of these papers, it has been decided to publish them in a book form. This anthology is the result of these efforts. Despite the fact that quality engineering borrows some technical words from traditional design of experiments, the goals of quality engineering are different from those of statistics. For example, suppose there are two vendors. One vendor supplies products whose quality characteristic has a normal distribution with the mean on target (the desired value) and a certain standard deviation.

U.S. Government Research Reports

Scientific and Technical Aerospace Reports

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Applied Mechanics Reviews

Structural Health Monitoring Damage Detection Systems for Aerospace

Springer Nature This open access book presents established methods of structural health monitoring (SHM) and discusses their technological merit in the current aerospace environment. While the aerospace industry aims for weight reduction to improve fuel efficiency, reduce environmental impact, and to decrease maintenance time and operating costs, aircraft structures are often designed and built heavier than required in order to accommodate unpredictable failure. A way to overcome this approach is the use of SHM systems to detect the presence of defects. This book covers all major contemporary aerospace-relevant SHM methods, from the basics of each method to the various defect types that SHM is required to detect to discussion of signal processing developments alongside considerations of aerospace safety requirements. It will be of interest to professionals in industry and academic researchers alike, as well as engineering students.

Technical Literature Abstracts

Cavitation and Bubble Dynamics

Cambridge University Press Cavitation and Bubble Dynamics deals with fundamental physical processes of bubble dynamics and cavitation for graduate students and researchers.

Monthly Catalog of United States Government Publications

Monthly Catalogue, United States Public Documents

Energy Research Abstracts

Official Gazette of the United States Patent Office

Bibliography of Agriculture

Quality Engineering Using Robust Design

The book presents a systematic and efficient method to design high quality / reliability and high performance products / processes at low cost. Contains case studies from diverse engineering fields to describe Robust Design / Taguchi method. Some topics covered are: orthogonal arrays, Signal-to-Noise ratios as design quality metric, computer-aided robust design techniques, and more.

OAR Quarterly Index of Current Research Results

High Resolution Imaging in Microscopy and

Ophthalmology

New Frontiers in Biomedical Optics

Springer This open access book provides a comprehensive overview of the application of the newest laser and microscope/ophthalmoscope technology in the field of high resolution imaging in microscopy and ophthalmology. Starting by describing High-Resolution 3D Light Microscopy with STED and RESOLFT, the book goes on to cover retinal and anterior segment imaging and image-guided treatment and also discusses the development of adaptive optics in vision science and ophthalmology. Using an interdisciplinary approach, the reader will learn about the latest developments and most up to date technology in the field and how these translate to a medical setting. High Resolution Imaging in Microscopy and Ophthalmology - New Frontiers in Biomedical Optics has been written by leading experts in the field and offers insights on engineering, biology, and medicine, thus being a valuable addition for scientists, engineers, and clinicians with technical and medical interest who would like to understand the equipment, the applications and the medical/biological background. Lastly, this book is dedicated to the memory of Dr. Gerhard Zinser, co-founder of Heidelberg Engineering GmbH, a scientist, a husband, a brother, a colleague, and a friend.

Government Reports Announcements & Index

Sea Grant Publications Index

Sea Grant Publications Index, 1968-72

Report of the Presidential Commission on the Space Shuttle Challenger Accident

DIANE Publishing Reviews the circumstances surrounding the Challenger accident to establish the probable cause or causes of the accident. Develops recommendations for corrective or other action based upon the Commission's findings and determinations. Color photos, charts and tables.

Energetic Phenomena on the Sun

The Solar Maximum Mission Flare Workshop Proceedings

Radioactive Waste Management

Introduction to Internal Combustion Engines

Bloomsbury Publishing Now in its fourth edition, this textbook remains the indispensable text to guide readers through automotive or mechanical engineering, both at university and beyond. Thoroughly updated, clear, comprehensive and well-illustrated, with a wealth of worked examples and problems, its combination of theory and applied practice aids in the understanding of internal combustion engines, from thermodynamics and combustion to fluid mechanics and materials science. This textbook is aimed at third year undergraduate or postgraduate students on mechanical or automotive engineering degrees. New to this Edition: - Fully updated for changes in technology in this fast-moving area - New material on direct injection spark engines, supercharging and renewable fuels - Solutions manual online for lecturers

The Oil and Gas Journal

Bulletin of the JSME.

Recent Advances in Mechanical Engineering

Select Proceedings of RAME 2020

Springer Nature This book presents the select proceedings of the second International Conference on Recent Advances in Mechanical Engineering (RAME 2020). The topics covered include aerodynamics and fluid mechanics, automation, automotive engineering, composites, ceramics and polymers processing, computational mechanics, failure and fracture mechanics, friction, tribology and surface engineering, heating and ventilation, air conditioning system, industrial engineering, IC engines, turbomachinery and alternative fuels, machinability and formability of materials, mechanisms and machines, metrology and computer-aided inspection, micro- and nano-mechanics, modelling, simulation and optimization, product design and development, rapid manufacturing technologies and prototyping, solid mechanics and structural mechanics, thermodynamics and heat transfer, traditional and non-traditional machining processes, vibration and acoustics. The book also discusses various energy-efficient renewable and non-renewable resources and technologies, strategies and technologies for sustainable development and energy & environmental interaction. The book is a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.

OAR Cumulative Index of Research Results

Petroleum Abstracts

OAR Cumulative Index of Research Results

Food Texture and Viscosity: Concept and Measurement

Elsevier Food Science and Technology: A Series of Monographs: Food Texture and Viscosity: Concept and Measurement focuses on the texture and viscosity of food and how these properties are measured. The publication first elaborates on texture, viscosity, and food, body-texture interactions, and principles of objective texture measurement. Topics include area and volume measuring instruments, chemical analysis, multiple variable instruments, soothing effect of mastication, reasons for masticating food, rheology and texture, and the rate of compression between the teeth. The book then examines the practice of objective texture measurement and viscosity and consistency, including the general equation for viscosity, methods for measuring viscosity, factors affecting viscosity, tensile testers, distance measuring measurements, and shear testing. The manuscript takes a look at the selection of a suitable test procedure and sensory methods of texture and viscosity measurement. Discussions focus on nonoral methods of sensory measurement; correlations between subjective and objective measurements; variations on the texture profile technique; and importance of sensory evaluation. The publication is a vital source of information for food experts and researchers interested in food texture and viscosity.

Current Environmental Engineering Summaries

Government Inst

Proceedings, Annual Convention

Meeting Papers - Gas Processors Association

Nuclear Science Abstracts