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SHARP LUCIANA

Structure-Borne Sound Springer-Verlag

Over the last five years an enormous number of wind turbines have been installed in Europe, bringing wind energy into public awareness. However, its further development is restricted mainly by public complaints caused by visual impact and noise. The European Commission has therefore funded a number of research projects in the field of wind turbine noise within the JOULE program. This book presents the most relevant results of these projects. The book addresses all relevant aspects of wind turbine noise, namely: noise reduction, noise propagation, noise measurement, and an introduction to aeroacoustics. It may serve as a first reference in the field of wind turbine noise for researchers, planners, and manufacturers.

Free Surface Flows Springer Science & Business Media

In the 2nd edition, this book conveys updated content and, in addition to classic project management, now also agile project management in a practical manner and serves as a toolbox for projects. To this end, the most important terms and phases of project management are first explained in a standard-compliant manner. Then this book deals with cross-project cross-sectional topics and project phase-specific content, divided into agile and classic project management. Tips and hints, examples, templates and checklists from project practice in the automotive and IT environment complement the contents. For student readers, there is also an extensive question catalog to consolidate the knowledge learned. This gives readers good and quick access to the topic of project management and helps them to be able to carry out their projects successfully.

Innovation in Wind Turbine Design Springer Science & Business Media

Foundations of Engineering Acoustics takes the reader on a journey from a qualitative introduction to the physical nature of sound, explained in terms of common experience, to mathematical models and analytical results which underlie the techniques applied by the engineering industry to improve the acoustic performance of their products. The book is distinguished by extensive descriptions and explanations of audio-frequency acoustic phenomena and their relevance to engineering, supported by a wealth of diagrams, and by a guide for teachers of tried and tested class demonstrations and laboratory-based experiments. *Foundations of Engineering Acoustics* is a textbook suitable for both senior undergraduate and postgraduate courses in mechanical, aerospace, marine, and possibly electrical and civil engineering schools at universities. It will be a valuable reference for academic teachers and researchers and will also assist Industrial Acoustic Group staff and Consultants. Comprehensive and up-to-date: broad coverage, many illustrations, questions, elaborated answers, references and a bibliography Introductory chapter on the importance of sound in technology and the role of the engineering acoustician Deals with the fundamental concepts, principles, theories and forms of mathematical representation, rather than methodology Frequent reference to practical applications and contemporary technology Emphasizes qualitative, physical introductions to each principal as an entrée to mathematical analysis for the less theoretically oriented readers and courses Provides a 'cook book' of demonstrations and laboratory-based experiments for teachers Useful for discussing acoustical problems with non-expert clients/managers because the descriptive sections are couched in largely non-technical language and any jargon is explained Draws on the vast pedagogic experience of the writer

Measurement Process Qualification Springer Science & Business Media

In immer mehr Studiengängen ist Englisch die Lehr- und Kommunikationssprache. Anlass genug, die wichtigsten Kapitel des Erfolgslehrbuches "Einführung in das Controlling" auf Englisch vorzulegen. Das bewährte didaktische Konzept wurde beibehalten: - Übersichtlichen Gestaltung - Klar formulierte Lernziele - Kapitelzusammenfassungen - Zahlreiche Fallbeispiele

Fracture Mechanics Springer Science & Business Media

First published: 2001.

Computational Fluid Dynamics ASM International

An introduction to CFD fundamentals and using commercial CFD software to solve engineering problems, designed for the wide variety of engineering students new to CFD, and for practicing engineers learning CFD for the first time. Combining an appropriate level of mathematical background, worked examples,

computer screen shots, and step by step processes, this book walks the reader through modeling and computing, as well as interpreting CFD results. The first book in the field aimed at CFD users rather than developers. New to this edition: A more comprehensive coverage of CFD techniques including discretisation via finite element and spectral element as well as finite difference and finite volume methods and multigrid method. Coverage of different approaches to CFD grid generation in order to closely match how CFD meshing is being used in industry. Additional coverage of high-pressure fluid dynamics and meshless approach to provide a broader overview of the application areas where CFD can be used. 20% new content

Foundations of Engineering Acoustics Springer Science & Business Media

Preface to the First Edition This textbook is an introduction to Scientific Computing. We will illustrate several numerical methods for the computer solution of certain classes of mathematical problems that cannot be faced by paper and pencil. We will show how to compute the zeros or the integrals of continuous functions, solve linear systems, approximate functions by polynomials and construct accurate approximations for the solution of differential equations. With this aim, in Chapter 1 we will illustrate the rules of the game that computers adopt when storing and operating with real and complex numbers, vectors and matrices. In order to make our presentation concrete and appealing we will 1 adopt the programming environment MATLAB as a faithful companion. We will gradually discover its principal commands, statements and constructs. We will show how to execute all the algorithms that we introduce throughout the book. This will enable us to furnish an immediate quantitative assessment of their theoretical properties such as stability, accuracy and complexity. We will solve several problems that will be raised through exercises and examples, often stemming from scientific applications.

Scientific Computing with MATLAB and Octave Diplomica Verlag

Now in its second English edition, *Mechanics of Materials* is the second volume of a three-volume textbook series on Engineering Mechanics. It was written with the intention of presenting to engineering students the basic concepts and principles of mechanics in as simple a form as the subject allows. A second objective of this book is to guide the students in their efforts to solve problems in mechanics in a systematic manner. The simple approach to the theory of mechanics allows for the different educational backgrounds of the students. Another aim of this book is to provide engineering students as well as practising engineers with a basis to help them bridge the gaps between undergraduate studies, advanced courses on mechanics and practical engineering problems. The book contains numerous examples and their solutions. Emphasis is placed upon student participation in solving the problems. The new edition is fully revised and supplemented by additional examples. The contents of the book correspond to the topics normally covered in courses on basic engineering mechanics at universities and colleges. Volume 1 deals with Statics and Volume 3 treats Particle Dynamics and Rigid Body Dynamics. Separate books with exercises and well elaborated solutions are available.

Statistical Procedures for Machine and Process Qualification Springer Nature

In production, measurement process capability studies are required. This requirement is obligatory according to several international standards, guidelines and company guidelines of the automotive industry. Due to this requirement, the risk of product liability is to become appreciable and controllable. While the automotive industry implemented gage capability studies during the last years, today, the determination of the extended measurement uncertainty serves as an alternative to capability studies or to the applicability of measurement processes. This book gives a comprehensive overview and assists you in dealing with these requirements in industrial production. Several guidelines contained in this book (Bosch, DaimlerChrysler, General Motors Powertrain) apply the procedures described here. The acquired experience confirms the great benefit of these procedures in practice. The following standards are considered "DIN EN ISO 9001:2000 and ISO/TS 16949 " QS-9000, MSA Third Edition " VDA 6.1, VDA 5 "Measurement Process Capability" " DGQ 13-61 "Gage Management" " GUM / DIN EN V 13005 " DIN EN ISO 14253 " DIN EN ISO 10012:2003 " VDI/VDE/DGQ 2618

The Pyramid Principle Springer Nature

"Do you need to produce clear reports, papers, analyses, presentations and memos? If so, you need *The Pyramid Principle*. Communicating your ideas concisely and articulately to clients, colleagues or to the management board is a key factor in

determining your personal business success. To gain the maximum effect you need to make maximum impact with your ideas upfront." "Applying the Pyramid Principle means you will save valuable time in writing and waste no time in getting your message across to your audience, making sure they grasp your meaning at once."--BOOK JACKET.

Project Management for Practice Beuth Verlag GmbH

Qualitätsmanagement ist Querschnittsaufgabe und ist daher in Wirtschaft, Verwaltung, Gesundheitswesen, Bankwesen, Versicherungswirtschaft usw. wahrzunehmen. Das vorliegende Handbuch Qualität dient dabei als Helfer und sicherer Ratgeber für richtige Entscheidungen. Dieses Fachbuch gibt dem Leser zu den Grundlagen und zu fast jedem Teilgebiet eine fundierte und in sich geschlossene Orientierung in der kaum noch überblickbaren fachlichen Meinungsvielfalt. Das Handbuch Qualität zeichnet sich durch eine unmissverständliche, zielführende Terminologie für alle behandelten Grundlagen und Teilgebiete des Qualitätsmanagements aus. In der vorliegenden Auflage wurde besonderer Wert auf Normenaktualität gelegt, textliche Verbesserungen vorgenommen und die Aussagekraft der Abbildungen erhöht.

Introduction to Controlling Butterworth-Heinemann

An updated and expanded new edition of this comprehensive guide to innovation in wind turbine design *Innovation in Wind Turbine Design, Second Edition* comprehensively covers the fundamentals of design, explains the reasons behind design choices, and describes the methodology for evaluating innovative systems and components. This second edition has been substantially expanded and generally updated. New content includes elementary actuator disc theory of the low induction rotor concept, much expanded discussion of offshore issues and of airborne wind energy systems, updated drive train information with basic theory of the epicyclic gears and differential drives, a clarified presentation of the basic theory of energy in the wind and fallacies about ducted rotor design related to theory, lab testing and field testing of the Katru and Wind Lens ducted rotor systems, a short review of LiDAR, latest developments of the multi-rotor concept including the Vestas 4 rotor system and a new chapter on the innovative DeepWind VAWT. The book is divided into four main sections covering design background, technology evaluation, design themes and innovative technology examples. Key features: Expanded substantially with new content. Comprehensively covers the fundamentals of design, explains the reasons behind design choices, and describes the methodology for evaluating innovative systems and components. Includes innovative examples from working experiences for commercial clients. Updated to cover recent developments in the field. The book is a must-have reference for professional wind engineers, power engineers and turbine designers, as well as consultants, researchers and graduate students.

Career Express: Business English B2 Springer

Ergonomics teaches how to design technology in such a way that it is optimally adapted to the needs, wishes and characteristics of the user. In this context, the concept of the human-machine system has become established. In a systematic way and with a detailed view of the complicated technical and perceptual psychological and methodological connections, this book explains the basics of automotive ergonomics with numerous examples. The application is shown in examples such as package, design of displays and control elements, of environmental ergonomics such as lighting, sound, vibrations, climate and smell. The design of driver assistance systems from an ergonomic perspective is also a central topic. The book is rounded off by methods of ergonomic vehicle development, the use of mock-ups, driving simulators and tests in real vehicles and prototypes. For the first time, those responsible in the automotive industry and in the field of relevant research are provided with a specialized systematic work that provides the ergonomic findings in the design of today's automobiles. This provides planners and designers of today's automobiles with concrete information for ergonomic product development, enabling them to keep an eye on decisive requirements and subsequent customer acceptance. This book is a translation of the original German 1st edition *Automobilergonomie* by Heiner Bubb, Klaus Bengler, Rainer E. Grünen & Mark Vollrath, published by Springer Fachmedien Wiesbaden GmbH, part of Springer Nature in 2015. The translation was done with the help of artificial intelligence (machine translation by the service DeepL.com). A subsequent human revision was done primarily in terms of content, so that the book will read stylistically differently from a conventional translation. Springer Nature works continuously to further the

development of tools for the production of books and on the related technologies to support the authors.

Modern Engine Technology from A to Z. Schäffer-Poeschel

The book covers selected problems in free surface flows. The topics range from linear and nonlinear gravity and capillary waves, thin film dynamics, equilibrium shape, stability, and dynamics of capillary surfaces to thermal Marangoni effects in several geometries. The fluid dynamical problems are supplemented by a review Eulerian based computational methods.

Prüfmittelmanagement Pearson Education

The world is on the threshold of a revolution that will change medicine and how patients are treated forever. Bringing together the creative talents of electrical, mechanical, optical and chemical engineers, materials specialists, clinical-laboratory scientists, and physicians, the science of biomedical microelectromechanical systems (bioMEMS) promises to deliver sensitive, selective, fast, low cost, less invasive, and more robust methods for diagnostics, individualized treatment, and novel drug delivery. This book is an introduction to this multidisciplinary technology and the current state of micromedical devices in use today. The first text of its kind dedicated to bioMEMS training. Fundamentals of BioMEMS and Medical Microdevices is Suitable for a single semester course for senior and graduate-level students, or as an introduction to others interested or already working in the field.

Lightweight Materials Prentice Hall

"Integriertes Qualitätsmanagement" ist ein Standardwerk, in dem das bewährte und richtungweisende St.Galler Konzept und Modell mit dem Qualitätsmanagement verbunden wird. Das Ziel dabei ist, die Qualität der Produkte, Dienstleistungen, Prozesse und der gesamten Unternehmung ständig zu verbessern. Alle relevanten Bereiche des Qualitätsmanagements werden in diesem umfassenden Lehrbuch dargestellt: Studierende erhalten eine

fundierte Einführung, Praktikern in der Wirtschaft bietet das Buch zahlreiche Beispiele, Methoden und Instrumente für die Umsetzung im eigenen Unternehmen. Highlights - Auch für Nichtspezialisten des Qualitätsmanagements geeignet - Bewährtes Standardwerk in aktualisierter Auflage - Zahlreiche Beispiele und Werkzeuge

Advanced Ceramics Springer Science & Business Media

- self-contained and well illustrated - complete and comprehensive derivation of mechanical/mathematical results with emphasis on issues of practical importance - combines classical subjects of fracture mechanics with modern topics such as microheterogeneous materials, piezoelectric materials, thin films, damage - mechanically and mathematically clear and complete derivations of results

Game Theory Bargaining and Auction Strategies Walter de Gruyter GmbH & Co KG

Statics is the first volume of a three-volume textbook on Engineering Mechanics. The authors, using a time-honoured straightforward and flexible approach, present the basic concepts and principles of mechanics in the clearest and simplest form possible to advanced undergraduate engineering students of various disciplines and different educational backgrounds. An important objective of this book is to develop problem solving skills in a systematic manner. Another aim of this volume is to provide engineering students as well as practising engineers with a solid foundation to help them bridge the gap between undergraduate studies on the one hand and advanced courses on mechanics and/or practical engineering problems on the other. The book contains numerous examples, along with their complete solutions. Emphasis is placed upon student participation in problem solving. The contents of the book correspond to the topics normally covered in courses on basic engineering mechanics at universities and colleges. Now in its second English edition, this material has been in use for two decades in

Germany, and has benefited from many practical improvements and the authors' teaching experience over the years. New to this edition are the extra supplementary examples available online as well as the TM-tools necessary to work with this method.

Handbuch Qualität Garnet Publishing

Zu den grundlegenden Aufgaben eines funktionierenden QM-Systems gehört auch ein klar definiertes Prüfmittelmanagement.

Mit den wichtigsten Elementen eines solchen

Prüfmittelmanagements macht der vorliegende DGQ-Band

vertraut. Das Werk richtet sich damit in erster Linie an

Qualitätsbeauftragte, Auditoren und an alle Koordinatoren und

Entscheidungsträger im Bereich QM.

Engineering Mechanics 1 John Wiley & Sons

This book has established itself as a standard reference for everyone dealing with statistical problems in industrial production. The focus is put on the application of the procedures required for machine acceptance and process qualification as well as interpretation of the calculated results. Great value is also set on the visualization of results in many different variations. This helps the practitioner to quickly gain insight into the situations he has to evaluate. Especially the included company guidelines are proof of the practical application and the benefit of the discussed topics in daily practice. This book takes the latest developments in international and national standards (i.e., DIN ISO 21747) into account. The company guidelines of Daimler AG, General Motors Powertrain, Robert Bosch GmbH, Volkswagen AG as well as the Ford Test Examples of the Evaluation of SPC Systems are included. The case examples included in the book as well as most of the charts and tables can be recreated using the qs-STAT(R) demo version. You can download this qs-STAT(R) demo version either from the Q-DAS(R) website (www.q-das.de) or order it directly from Q-DAS(R). The data necessary for handling the case examples are also included in the demo version.