

Colin Radcliffe · Bridget Radcliffe

Doubt-Free Uncertainty Measurement

An Introduction for Engineers and
Students



Springer

Doubt Uncertainty In Measurement An Introduction For Engineers And Students

Ying Liu



Doubt Uncertainty In Measurement An Introduction For Engineers And Students:

Doubt-Free Uncertainty In Measurement Colin Ratcliffe, Bridget Ratcliffe, 2014-11-17 This volume presents measurement uncertainty and uncertainty budgets in a form accessible to practicing engineers and engineering students from across a wide range of disciplines The book gives a detailed explanation of the methods presented by NIST in the GUM Guide to Uncertainty of Measurement Emphasis is placed on explaining the background and meaning of the topics while keeping the level of mathematics at the minimum level necessary Dr Colin Ratcliffe USNA and Bridget Ratcliffe Johns Hopkins develop uncertainty budgets and explain their use In some examples the budget may show a process is already adequate and where costs can be saved In other examples the budget may show the process is inadequate and needs improvement The book demonstrates how uncertainty budgets help identify the most cost effective place to make changes In addition an extensive fully worked case study leads readers through all issues related to an uncertainty analysis including a variety of different types of uncertainty budgets The book is ideal for professional engineers and students concerned with a broad range of measurement assurance challenges in applied sciences This book also Facilitates practicing engineers understanding of uncertainty budgets essential to calculating cost effective savings to a wide variety of processes contingent on measurement Presents uncertainty budgets in an accessible style suitable for all undergraduate STEM courses that include a laboratory component Provides a highly adaptable supplement to graduate textbooks for courses where students work includes reporting on experimental results Includes an expanded case study developing uncertainty from transducers through measurands and propagated to the final measurement that can be used as a template for the analysis of many processes Stands as a useful pocket reference for all engineers and experimental scientists

Blackbody Radiometry Victor Sapritsky, Alexander Prokhorov, 2020-10-19 This book the first of a two volume set focuses on the basic physical principles of blackbody radiometry and describes artificial sources of blackbody radiation widely used as sources of optical radiation whose energy characteristics can be calculated on the base of fundamental physical laws Following a review of radiometric quantities radiation laws and radiative heat transfer it introduces the basic principles of blackbody radiators design details of their practical implementation and methods of measuring their defining characteristics as well as metrological aspects of blackbody based measurements Chapters are dedicated to the effective emissivity concept methods of increasing effective emissivities their measurement and modeling using the Monte Carlo method techniques of blackbody radiators heating cooling isothermalization and measuring their temperature An extensive and comprehensive reference source this book is of considerable value to students researchers and engineers involved in any aspect of blackbody radiometry

A Student's Introduction to Engineering Design Harold A. Simon, 2016-10-27 A Student's Introduction to Engineering Design is a book purposed to present the fundamentals in engineering design in a form easily understood by first time students so that they can be familiarized early in their curriculum The text is divided into two books Book I describes the discipline of the

engineering design and includes design modeling decision theory communication and detailed design Book II on the other hand is background material and is more suited to be read early on in the course as it explores the human element of engineering and the engineer's role towards society The book is recommended for beginning engineering students especially for those who wish to acquire a broad perspective and an open mind in their approach to their profession of engineering learn about design and make them actively participate in design problems requiring formulation analysis evaluation and decision making

Potenzial von nicht-konstanter Rotorsteigung für Schraubenkompressoren Matthias Utri, 2021-07-12

Schraubenkompressoren sind in der Industrie weit verbreitet und dadurch für einen großen Teil des weltweiten elektrischen Energieumsatzes verantwortlich Die in der Regel in Schraubenkompressoren verwendeten Rotoren mit konstanter Rotorsteigung stellen dabei stets einen Kompromiss zwischen den beiden primär vorherrschenden dissipativen Mechanismen Spaltmassenströmen und Auslassdrosselung dar Rotoren mit nicht konstanter Rotorsteigung bieten eine vielversprechende Möglichkeit zur energetischen Verbesserung von Schraubenkompressoren In diesem Band wird das Potenzial nicht konstanter Rotorsteigung auf Grundlage dimensionsloser Kennzahlen für eine große Variationsbreite an Randbedingungen untersucht Die Genauigkeit der dafür durchgeführten Kammermodellsimulationen hängt in großem Maße von der Modellierung der maschineninternen Spaltmassenströme ab Mithilfe von CFD Simulationen wird daher der Durchfluss durch die Stirn und Gehäusespalte untersucht und die Ergebnisse anhand eines Versuchsstandes experimentell validiert Die Ergebnisse fließen anschließend in Form von Strömungsbeiwerten in die Simulation der Schraubenkompressoren ein Die nicht konstante Rotorsteigung wird anhand zweier geometrischer Konzepte untersucht und die optimalen Rotorgeometrien sowie die zugehörigen Geometrie mit der optimalen Leistung konstanter Rotorsteigung gegenübergestellt Das theoretisch bestimmte Potenzial wird schließlich anhand eines leingespitzten Prototyps mit nicht konstanter Rotorsteigung experimentell validiert

Measurement Theory for Engineers Ilya Gertsbakh, 2003-05-21 Well written textbook on industrial applications of Statistical Measurement Theory It deals with the principal issues of measurement theory is concise and intelligibly written and to a wide extent self contained Difficult theoretical issues are separated from the mainstream presentation Each topic starts with an informal introduction followed by an example the rigorous problem formulation solution method and a detailed numerical solution Chapter are concluded with a set of exercises of increasing difficulty mostly with solutions Knowledge of calculus and fundamental probability and statistics is assumed

Nanomaterial Characterization Ratna Tantra, 2016-03-24

Nanomaterial Characterization Providing various properties of nanomaterials and the various methods available for their characterization Over the course of the last few decades research activity on nanomaterials has gained considerable press coverage The use of nanomaterials has meant that consumer products can be made lighter stronger esthetically more pleasing and less expensive The significant role of nanomaterials in improving the quality of life is clear resulting in faster computers cleaner energy production target driven pharmaceuticals and better construction materials It is not surprising

therefore that nanomaterial research has really taken off spanning across different scientific disciplines from material science to nanotoxicology A critical part of any nanomaterial research however is the need to characterize physicochemical properties of the nanomaterials which is not a trivial matter Nanomaterial Characterization An Introduction is dedicated to understanding the key physicochemical properties and their characterization methods Each chapter begins by giving an overview of the topic before a case study is presented The purpose of the case study is to demonstrate how the reader may make use of the background information presented to them and show how this can be translated to solve a nanospecific application scenario Thus it will be useful for researchers in helping them design experimental investigations The book begins with a general overview of the subject thus giving the reader a solid foundation to nanomaterial characterization Nanomaterial Characterization An Introduction features Nanomaterial synthesis and reference nanomaterials Key physicochemical properties and their measurements including particle size distribution by number solubility surface area surface chemistry mechanical tribological properties and dustiness Scanning tunneling microscopy methods operated under extreme conditions Novel strategy for biological characterization of nanomaterial methods Methods to handle and visualize multidimensional nanomaterial characterization data The book is written in such a way that both students and experts in other fields of science will find the information useful whether they are in academia industry or regulation or those whose analytical background may be limited There is also an extensive list of references associated with every chapter to encourage further reading

Uncertainty in Acoustics Robert Peters, 2020-07-27 This guide to estimating uncertainties in the measurement prediction and assessment of noise and vibration applies across environmental noise and vibration occupational noise and vibration exposure and building and architectural acoustics The book collates information from the various Standards and from research with explanation examples and case studies It enables estimation of uncertainty in the measurement and prediction of acoustic quantities suitable for use in environmental impact and occupational exposure assessments It is for acoustic consultants mechanical and building service engineers architect and building professionals and environmental health officers Bob Peters worked for more than forty years in acoustics and noise control teaching research consultancy He was a principal acoustic consultant with Applied Acoustic Design a senior research fellow at London South Bank University and a tutor on Institute of Acoustics distance learning courses **Irish Builder and Engineer**, 1859

High Level Radioactive Waste Management American Society of Civil Engineers, 1996 This collection contains 178 papers on the technical and societal impacts of high level radioactive waste presented at the Seventh Annual International Conference on High Level Radioactive Waste Management held in Las Vegas Nevada April 29 May 3 1996 [Risk - A Multidisciplinary Introduction](#) Claudia Klüppelberg, Daniel Straub, Isabell M. Welp, 2014-06-10 This is a unique book addressing the integration of risk methodology from various fields It will stimulate intellectual debate and communication across disciplines promote better risk management practices and contribute to the development of risk management

methodologies Individual chapters explain fundamental risk models and measurement and address risk and security issues from diverse areas such as finance and insurance the health sciences life sciences engineering and information science Integrated Risk Sciences is an emerging discipline that considers risks in different fields aiming at a common language and at sharing and improving methods developed in different fields Readers should have a Bachelor degree and have taken at least one basic university course in statistics and probability The main goal of the book is to provide basic knowledge on risk and security in a common language the authors have taken particular care to ensure that all content can readily be understood by doctoral students and researchers across disciplines Each chapter provides simple case studies and examples open research questions and discussion points and a selected bibliography inviting readers to further study

Engineering Record, Building Record and Sanitary Engineer Henry Coddington Meyer, Charles Frederick Wingate, 1900

Fundamentals of Civil Engineering Richard H. McCuen, Edna Z. Ezzell, Melanie K. Wong, 2011-02-22 While the ASCE Body of Knowledge BOK2 is the codified source for all technical and non technical information necessary for those seeking to attain licensure in civil engineering recent graduates have notoriously been lacking in the non technical aspects even as they excel in the technical Fundamentals of Civil Engineering An Introduction to the *The Engineering Record, Building Record and the Sanitary Engineer*, 1900

Proceedings of the Institution of Electrical Engineers, 1905 **Journal of the Institution of Electrical Engineers**, 1905 *Proceedings - Institution of Civil Engineers* Institution of Civil Engineers (Great Britain), 1978

Engineering & Building Record and the Sanitary Engineer, 1887 **The Sanitary Engineer and Construction Record**, 1887 **American Society for Municipal Improvements** American Society of Municipal Engineers, 1896

Bulletin of the Atomic Scientists, 1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

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