

Colin Ratcliffe - Bridget Ratcliffe

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# Doubt-Free Uncertainty In Measurement

An Introduction for Engineers and  
Students

 Springer

# Doubt Uncertainty In Measurement An Introduction For Engineers And Students

**BM King**



## **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

*The Engineering Record, Building Record and the Sanitary Engineer*, 1900 Proceedings of the Institution of Electrical Engineers Institution of Electrical Engineers, 1930 Vols 56 61 accompanied by Institution notes no 1 40 Dec 1917 Oct 1923 v 10 and 57 each accompanied by a suppl other vols accompanied by special issues and supplements

**Engineering Record, Building Record and Sanitary Engineer**, 1887 **Journal of the Institution of Electrical Engineers**, 1905 *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

*The Engineering Record, Building Record and Sanitary Engineer* Charles Frederick Wingate, Henry C. Meyer, 1887

*Journal of the Society of Telegraph Engineers and of Electricians*, 1905 Includes the Society's list of officers members and associates **Engineering & Building Record and the Sanitary Engineer**, 1887 *The Proceedings of the*

*Institution of Electrical Engineers* Institution of Electrical Engineers, 1956 **Journal of the Institution of Electrical Engineers**, 1948 **Factory and Industrial Management** John Robertson Dunlap, Arthur Van Vlissingen, John M.

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