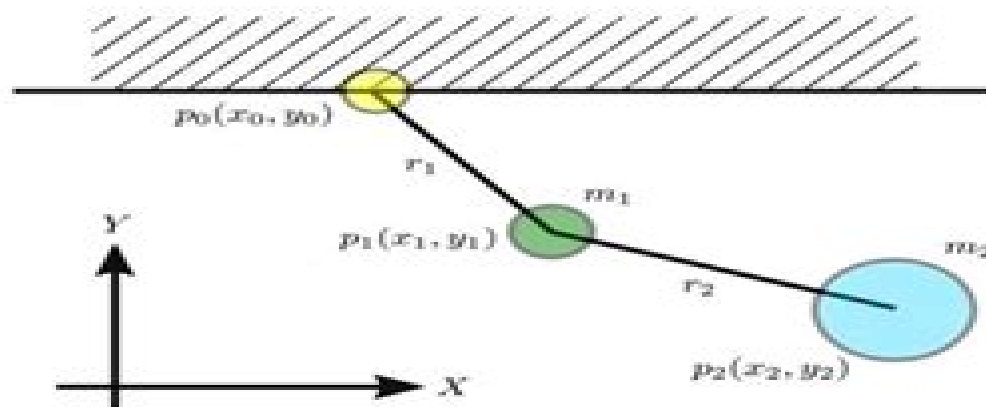


In mechanical engineering work an error analysis is usually performed with a Kline-McClintock method that propagates the measurement errors or equivalently the uncertainty in variables/parameters through a governing equation so that the final uncertainty may be estimated using the calculus-based error analysis equation. Consider a double pendulum system as shown below.



Sketch of a double pendulum system

Supplied Information:

- $m_1 = (0.372 \pm 0.003)$ kg (Rectangular distribution)
- $m_2 = (1.647 \pm 0.071)$ kg (Rectangular distribution)
- $r_1 = (0.420 \pm 0.036)$ m (Gaussian distribution)
- $y_1 = (0.362 \pm 0.009)$ m (Gaussian distribution)
- $\dot{y}_1 = (-0.843 \pm 0.73)$ m s⁻¹ (Gaussian distribution)
- $v_2 = (1.87 \pm 0.143)$ m s⁻¹ (Triangular distribution)

A double pendulum system consists of two balls each of mass m_1 and m_2 that are interconnected to each other by segments of lengths r_1 and r_2 respectively.

Segment r_1 is inflexible and connected to an upper ceiling at a point p_0 which has coordinates (x_0, y_0) in an XY coordinate system, such that the centre-of-mass of the ball of mass m_1 at the other end of segment r_1 is located at point p_1 which has coordinates (x_1, y_1) , which is also the end of segment r_2 which is flexible such that the other end of segment r_2 is connected to the ball of mass m_2 centre-of-mass at point p_2 which has coordinates at (x_2, y_2) .

For this system the potential energy may be neglected, gravity acts in a downwards direction, and the equation of motion is specified in terms of four degrees-of-freedom, which specifies the overall kinetic energy of the system.

HINT: The constraint that r_1 is constant whilst r_2 is not constant may be simplified by considering a translation of the coordinate system.

Considering the above specified system for the double pendulum derive a governing equation for the kinetic energy of the overall system and utilize the supplied uncertainty specification to apply the Kline-McClintock method to perform an error analysis in order to calculate the standard uncertainty of the kinetic energy of the system. Include a computer model developed in Scilab/Xcos with full details of the code with any annotations/explanations with associated compilation details as appropriate so that the measurement model may accept user inputs which may be Rectangular distributions, Gaussian distributions or Triangular distributions. From your developed error analysis approximate the 7-dimensional model of the kinetic energy system as a 3-dimensional model by considering the two inputs which contribute most to the uncertainty of the kinetic energy and utilize that to generate a 3-dimensional graph of the kinetic energy and the corresponding contour plot that specifies the variation in the kinetic energy. Additional points may be earned by determining the expanded uncertainty probability density function of the kinetic energy. Document your work in a type written engineering report of not more than 40 pages inclusive of graphs, diagrams and accompanying computer code that is submitted as a single Adobe PDF file.

This project assessment is by individual students and will be marked by the primary lecturer Mr V Ramnath and/or the secondary examiner Prof H Ngwangwa and/or the external examiner Prof D Desai.

Rubric Guidelines

Points allocated if the individual student meaningfully engages/addresses inter alia: • demonstrated mathematical understanding of a mechanical system • demonstrated mathematical understanding of the Kline-McClintock method • technical understanding of statistical uncertainties • demonstrated understanding of error analysis for calculating standard uncertainty • understanding of computing expanded uncertainty • computational expertise in Scilab/Xcos • adhered to engineering report writing good practice • demonstrated understanding and proficiency in technical communication writing • demonstrated good practice in scientific graphical communication • appropriate bibliography references

Mechanical Engineering 1953 Kline And McClintock

C.J. Cremers,H.A. Fine,H. Alan Fine



Mechanical Engineering 1953 Kline And McClintock

Thermal Conductivity C.J. Cremers, H.A. Fine, H. Alan Fine, 1990 Fifty one papers and three keynote addresses on contemporary theoretical issues and experimental techniques pertaining to the underlying factors that control heat conduction behavior of materials The latest findings on insulation fluids and low dimensional solids and composites are reviewed as

Experimentation and Uncertainty Analysis for Engineers Hugh W. Coleman, W. Glenn Steele, 1999 Now in the only manual available with direct applications to the design and analysis of engineering experiments respected authors Hugh Coleman and Glenn Steele have thoroughly updated their bestselling title to include the new methodologies being used by the United States and International standards committee groups

Mathematics for Mechanical Engineers Frank Kreith, William F. Ames, George Cain, Y. L. Tong, W. Glenn Steele, Hugh W. Coleman, Richard L. Kautz, Dan M. Frangopol, Paul Norton, 2022-03-30 Mathematics for Mechanical Engineers gives mechanical engineers convenient access to the essential problem solving tools that they use each day It covers applications employed in many different facets of mechanical engineering from basic through advanced to ensure that you will easily find answers you need in this handy guide For the engineer venturing out of familiar territory the chapters cover fundamentals like physical constants derivatives integrals Fourier transforms Bessel functions and Legendre functions For the experts it includes thorough sections on the more advanced topics of partial differential equations approximation methods and numerical methods often used in applications The guide reviews statistics for analyzing engineering data and making inferences so professionals can extract useful information even with the presence of randomness and uncertainty The convenient Mathematics for Mechanical Engineers is an indispensable summary of mathematics processes needed by engineers

Fluid Mechanics and Heat Transfer for Gases (air, He, H₂ and N₂) Flowing Single Phase in Closed Channels Rose Kraft, 1962

Recent Trends in Mechanical Engineering Ambrish Maurya, Anmesh Kumar Srivastava, Pradeep Kumar Jha, Shailesh Mani Pandey, 2023-06-07 This book contains the select papers presented at the International Conference on Progressive Research in Industrial Mechanical Engineering PRIME 2021 held at the National Institute of Technology NIT Patna India The book discusses various aspects related and relevant to core areas of mechanical engineering including engineering design production engineering industrial engineering automobile engineering thermal and fluids engineering mechatronics control and robotics and other interdisciplinary emerging topics for potential use in a spectrum of applications The book will be a valuable reference for students researchers and professionals interested in mechanical engineering and allied fields

[Handbook of Measurement in Science and Engineering, Volume 2](#) Myer Kutz, 2015-12-03 A multidisciplinary reference of engineering measurement tools techniques and applications Volume 2 When you can measure what you are speaking about and express it in numbers you know something about it but when you cannot measure it when you cannot express it in numbers your knowledge is of a

meager and unsatisfactory kind it may be the beginning of knowledge but you have scarcely in your thoughts advanced to the stage of science Lord Kelvin Measurement falls at the heart of any engineering discipline and job function Whether engineers are attempting to state requirements quantitatively and demonstrate compliance to track progress and predict results or to analyze costs and benefits they must use the right tools and techniques to produce meaningful useful data The Handbook of Measurement in Science and Engineering is the most comprehensive up to date reference set on engineering measurements beyond anything on the market today Encyclopedic in scope Volume 2 spans several disciplines Materials Properties and Testing Instrumentation and Measurement Standards and covers Viscosity Measurement Corrosion Monitoring Thermal Conductivity of Engineering Materials Optical Methods for the Measurement of Thermal Conductivity Properties of Metals and Alloys Electrical Properties of Polymers Testing of Metallic Materials Testing and Instrumental Analysis for Plastics Processing Analytical Tools for Estimation of Particulate Composite Material Properties Input and Output Characteristics Measurement Standards and Accuracy Tribology Measurements Surface Properties Measurement Plastics Testing Mechanical Properties of Polymers Nondestructive Inspection Ceramics Testing Instrument Statics Signal Processing Bridge Transducers Units and Standards Measurement Uncertainty Data Acquisition and Display Systems Vital for engineers scientists and technical managers in industry and government Handbook of Measurement in Science and Engineering will also prove ideal for members of major engineering associations and academics and researchers at universities and laboratories

Microscale Heat Transfer - Fundamentals and Applications S. Kakaç, L.L. Vasiliev, Y. Bayazitoglu, Y. Yener, 2006-05-20 This volume contains an archival record of the NATO Advanced Institute on Microscale Heat Transfer Fundamental and Applications in Biological and Microelectromechanical Systems held in esme Izmir Turkey July 18 30 2004 The ASIs are intended to be high level teaching activity in scientific and technical areas of current concern In this volume the reader may find interesting chapters and various Microscale Heat Transfer Fundamental and Applications The growing use of electronics in both military and civilian applications has led to the widespread recognition for need of thermal packaging and management The use of higher densities and frequencies in microelectronic circuits for computers are increasing day by day They require effective cooling due to heat generated that is to be dissipated from a relatively low surface area Hence the development of efficient cooling techniques for integrated circuit chips is one of the important contemporary applications of Microscale Heat Transfer which has received much attention for cooling of high power electronics and applications in biomechanical and aerospace industries Microelectromechanical systems are subject of increasing active research in a widening field of discipline These topics and others are the main theme of this Institute

Design and Performance of Large Solar Thermal Collector Arrays, 1985

First E.C. Conference on Solar Heating C. den Ouden, 2012-12-06 Contributors to this Conference have shown the wide range of active and passive solar heating systems which have been researched installed and monitored in recent years throughout western Europe and elsewhere Yet much remains to be done if solar

heating is to reach its full potential The Conference Committee hopes that this record of the proceedings will provide a basis for the further development of these systems Many difficulties have been surmounted in arriving at today s position The foundations of the growing confidence of architects and engineers are to be found in the concerted programmes of research and development mounted by ty o of the sponsors of the Conference the European Community and the International Energy Agency Some of the more tangible products of these programmes have been reported here component and system behaviour has been subjected to rigorous scientific study new test facilities have been founded test procedures devised simulation methods developed and evaluated design rules formulated and checked against measured performance It has been apparent here that the willingness to exchange information and experiences which has always been a feature of the solar energy scene remains as strong as ever A further information sharing initiative was noted on the part of another sponsor UNESCO the setting up of the European Cooperative Network on Solar Energy involving countries from both eastern and western Europe

Transport Phenomena In Combustion SH Chan,2024-09-06 This two volume set presents the proceedings from the 8th International Symposium on Transport Phenomena in Combustion There are more than 150 chapters that provide an extensive review of topics such as complete numerical simulation of combustion and heat transfer in furnaces and boilers the interaction of combustion and heat transfer in porous media for low emission high efficiency applications industrial combustion technology experimental and diagnostic methods and active combustion control and fire research internal combustion engine Nox and soot emission Theory and Design for Mechanical Measurements Richard S. Figliola,Donald E. Beasley,2020-06-23 Theory and Design for Mechanical Measurements merges time tested pedagogy with current technology to deliver an immersive accessible resource for both students and practicing engineers Emphasizing statistics and uncertainty analysis with topical integration throughout this book establishes a strong foundation in measurement theory while leveraging the e book format to increase student engagement with interactive problems electronic data sets and more This new Seventh edition has been updated with new practice problems electronically accessible solutions and dedicated Instructor Problems that ease course planning and assessment Extensive coverage of device selection test procedures measurement system performance and result reporting and analysis sets the field for generalized understanding while practical discussion of data acquisition hardware infrared imaging and other current technologies demonstrate real world methods and techniques Designed to align with a variety of undergraduate course structures this unique text offers a highly flexible pedagogical framework while remaining rigorous enough for use in graduate studies independent study or professional reference **Uncertainty Analysis of Experimental Data with R** Benjamin David Shaw,2017-07-06 This would be an excellent book for undergraduate graduate and beyond The style of writing is easy to read and the author does a good job of adding humor in places The integration of basic programming in R with the data that is collected for any experiment provides a powerful platform for analysis of data having the understanding of data analysis that this book offers

will really help researchers examine their data and consider its value from multiple perspectives and this applies to people who have small AND large data sets alike This book also helps people use a free and basic software system for processing and plotting simple to complex functions Michelle Pantoya Texas Tech University Measurements of quantities that vary in a continuous fashion e g the pressure of a gas cannot be measured exactly and there will always be some uncertainty with these measured values so it is vital for researchers to be able to quantify this data Uncertainty Analysis of Experimental Data with R covers methods for evaluation of uncertainties in experimental data as well as predictions made using these data with implementation in R The books discusses both basic and more complex methods including linear regression nonlinear regression and kernel smoothing curve fits as well as Taylor Series Monte Carlo and Bayesian approaches Features 1 Extensive use of modern open source software R 2 Many code examples are provided 3 The uncertainty analyses conform to accepted professional standards ASME 4 The book is self contained and includes all necessary material including chapters on statistics and programming in R Benjamin D Shaw is a professor in the Mechanical and Aerospace Engineering Department at the University of California Davis His research interests are primarily in experimental and theoretical aspects of combustion Along with other courses he has taught undergraduate and graduate courses on engineering experimentation and uncertainty analysis He has published widely in archival journals and became an ASME Fellow in 2003

Review of Progress in Quantitative Nondestructive Evaluation Donald Thompson, 2012-12-06 This Proceedings contains the edited papers presented at the annual Review of Progress in Quantitative NDE held at the University of California Santa Cruz Aug 7 12 1983 In it papers have been arranged topically by chapters and subsections rather than by order of presentation at the Review The editors believe that this format is preferable as a reference volume Thus the Proceedings contains nine chapters and subsections which provide broad coverage of topics of current interest in NDE research and development The Review was sponsored by the Center for Advanced NDE Ames Laboratory of the U S Department of Energy in cooperation with the Office of Basic Energy Sciences USDOE the Defense Advanced Research Projects Agency the Materials Laboratory of the Air Force Wright Aeronautical Laboratories and the Naval Sea Systems Command Approximately 275 attendees representing various government agencies industry and academia participated in the technical presentations poster sessions and discussions This Review possibly the most comprehensive annual symposium in NDE emphasizes both basic research and early engineering applications it provides a valuable forum for the transfer of technical information Para graphs given below provide a brief summary of the contents of the Proceedings Chapter 1 consists of four papers that discuss elements of NDE Reliability and contains the keynote paper given by Dr J M Coffey of the NDT Applications Centre Central Electricity Generating Board Manchester England In his paper Dr Experimental Hydraulics: Methods, Instrumentation, Data Processing and Management Marian Muste, Dennis A. Lyn, David Admiraal, Robert Ettema, Vladimir Nikora, Marcelo H. Garcia, 2017-07-28 This is the first volume of a two volume guide to designing conducting and interpreting laboratory and

field experiments in a broad range of topics associated with hydraulic engineering Specific guidance is provided on methods and instruments currently used in experimental hydraulics with emphasis on new and emerging measurement technologies and methods of analysis Additionally this book offers a concise outline of essential background theory underscoring the intrinsic connection between theory and experiments This book is much needed as experimental hydraulicians have had to refer to guidance scattered in scientific papers or specialized monographs on essential aspects of laboratory and fieldwork practice The book is the result of the first substantial effort in the community of hydraulic engineering to describe in one place all the components of experimental hydraulics Included is the work of a team of more than 45 professional experimentalists who explore innovative approaches to the vast array of experiments of differing complexity encountered by today s hydraulic engineer from laboratory to field from simple but well conceived to complex and well instrumented The style of this book is intentionally succinct making frequent use of convenient summaries tables and examples to present information All researchers practitioners and students conducting or evaluating experiments in hydraulics will find this book useful

NUREG/CR. U.S. Nuclear Regulatory Commission,1980 *Santa Clara, California, Community Center Commercial Solar Demonstration Progress Report* W. Niemeyer,United States. Department of Energy. Office of Conservation and Solar Applications,1978 The Santa Clara Community Center is a 27 000 sq ft one story building set in a Mediterranean climate The peak summer cooling load for the building is estimated to be 5 9 x 10⁶ Btu day and is roughly twice the estimated peak winter heating load The solar driven hydronic system includes 7085 sq ft of double glazed flat plate collectors with a selective coating two 25 ton ARKLA absorption chillers a 50 000 gallon stratified cold storage tank and a 10 000 gallon hot storage tank A gas fired boiler is used for backup A minicomputer controlled data acquisition system has been providing operational data including detailed energy balances since April 1977 Detailed results for the period of April 1977 to September 1978 are presented The solar heating and cooling system has performed successfully and dependably during its first two years of operation Solar collector and absorption chiller performance is lower than expected System performance during the summer seasons is about the same as predicted giving a solar fraction of load of 0 65 Performance during the winter season is much lower than predicted with a solar fraction of load of 0 40 compared to a predicted value of 0 80 Fossil fuel energy consumption of the system is greater than the estimated consumption of the original non solar design during some months of the summer season On an annual basis there is a net savings of fossil energy of about 8 percent

Proceedings of the 4th Conference on Thermal Conductivity ,1964 **Santa Clara, California, Community Center Commercial Solar Demonstration** United States. Department of Energy. Office of Conservation and Solar Applications,1978 Thermal Conductivity ,1964 **Optical Diagnostic Measurements of Coal Slag Parameters in Combustion MHD Systems** Peter Carl Ariessohn,1980

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