

QUESTION 1: MOTION, ENERGY AND POWER

1.1 State the law of conservation of energy in words. (2)

1.2 A motorcar with a mass of 0,9 ton is parked on an incline AB of 1 : 20. The motorcar departs from rest at A and within 12 seconds reaches a speed of 144 km/h.

If all frictional losses are neglected, calculate:



1.2.1 The acceleration of the car from A to B

1.2.2 The pulling force of the car's engine

1.2.3 The length of the gradient

1.2.4 The power of the car's engine

1.2.5 The potential energy at B (5 x 2) (10)

1.3 A Gautrain experiences a tractive resistance of 280 N per 1 000 kg when it moves.

If the Gautrain exerts a force of 80 kN when it has a mass of 40 000 kg, calculate the acceleration of the Gautrain. (4)

[16]

Engineering Science N3 Solutions

Harold A. Foecke



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The Numerical Solution Of Systems Of Polynomials Arising In Engineering And Science Andrew J Sommese, Charles W Wampler, Jr, 2005-03-21 Written by the founders of the new and expanding field of numerical algebraic geometry this is the first book that uses an algebraic geometric approach to the numerical solution of polynomial systems and also the first one to treat numerical methods for finding positive dimensional solution sets The text covers the full theory from methods developed for isolated solutions in the 1980 s to the most recent research on positive dimensional sets

Engineering Science N2 Pieter Gerhardus Cloete Rousseau, 2000 Engineering Science N2 serves as a user friendly handbook both for the student and the lecturer in that it not only contains the complete theoretical component for every module but it also has a short revision section dealing with necessary material from the previous grade

Essential Mathcad for Engineering, Science, and Math w/ CD Brent Maxfield, 2009-05-22 Essential Mathcad for Engineering Science and Math w CD Second Edition introduces the most powerful functions and features of the software and teaches their application to create comprehensive calculations for any quantitative subject Examples from a variety of fields demonstrate the power and utility of Mathcad s tools while also demonstrating how other software such as Excel spreadsheets can be incorporated effectively A companion CD ROM contains a full non expiring version of Mathcad North America only This new edition features a new chapter that introduces the basics of Mathcad to allow the reader to begin using the program early applied examples and problems from a wide variety of disciplines and more thorough discussions of commonly used engineering tools differential equations 3D plotting and curve fitting Its simple step by step approach makes this book an ideal text for professional engineers as well as engineering science and math students Many more applied examples and exercises from a wide variety of engineering science and math fields New more thorough discussions of differential equations 3D plotting and curve fitting Full non expiring version of Mathcad software included on CD ROM North America only A step by step approach enables easy learning for professionals and students alike

The Engineering Science of Mineral Processing Fernando Concha A, Osvaldo A. Bascur, 2024-04-29 The Engineering Science of Mineral Processing A Fundamental and Practical Approach emphasizes the fundamentals of mineral processing to provide readers with a deep understanding of the science and phenomena that occur during the processing of ores It also offers guidance on contemporary process implementation through practical industry applications It includes examples of dynamic simulations and practical execution of advanced software to guide operating plans to ensure optimal conditions that predict process constraints Focuses on the science of mineral processing including particulate systems hydrodynamics and physical chemistry Discusses modeling rheology comminution classification flotation and solid liquid separation Includes practical examples from real world industrial applications Provides information on dynamic process simulations and the application of digital twins in mineral processing plants to improve management and efficiency Details the future of mineral processing in the digital era Offering a balance

between fundamentals and applications this book will be of interest to researchers and industry professionals working to optimize mining mineral and chemical processing plants It will also be of value to advanced students taking mineral processing and chemical engineering courses *The Finite Element Method in Engineering Science* O. C. Zienkiewicz,1971

Integral Methods in Science and Engineering Fred R. Payne,1986 **Solutions for Mathematics N3 and Engineering Science** ,1984 Domain-based Parallelism and Problem Decomposition Methods in Computational Science and Engineering David E. Keyes,Yousef Saad,Donald G. Truhlar,1995-01-01 This refereed volume arose from the editors recognition that physical scientists engineers and applied mathematicians are developing in parallel solutions to problems of parallelization The cross disciplinary field of scientific computation is bringing about better communication between heterogeneous computational groups as they face this common challenge This volume is one attempt to provide cross disciplinary communication Problem decomposition and the use of domain based parallelism in computational science and engineering was the subject addressed at a workshop held at the University of Minnesota Supercomputer Institute in April 1994 The authors were subsequently able to address the relationships between their individual applications and independently developed approaches This book is written for an interdisciplinary audience and concentrates on transferable algorithmic techniques rather than the scientific results themselves Cross disciplinary editing was employed to identify jargon that needed further explanation and to ensure provision of a brief scientific background for each chapter at a tutorial level so that the physical significance of the variables is clear and correspondences between fields are visible *Numerical Methods in Engineering and Science* B. S. Grewal,2018-08-02 No detailed description available for Numerical Methods in Engineering and Science *Book catalog of the Library and Information Services Division* Environmental Science Information Center. Library and Information Services Division,1977 Book Catalog of the Library and Information Services Division: Subject index Environmental Science Information Center. Library and Information Services Division,1977

Proceedings of 2021 International Top-Level Forum on Engineering Science and Technology Development Strategy Yusheng Xue,Yuping Zheng,Damir Novosel,2022-03-21 This book includes original peer reviewed research papers from the 2021 International Top Level Forum on Engineering Science and Technology Development Strategy the 6th PURPLE MOUNTAIN FORUM on Smart Grid Protection and Control PMF2021 held in Nanjing China on August 14 22 2021 The accepted papers cover the following topics 1 Advanced power transmission technology 2 AC DC hybrid power grid technology3 Power Internet of Things Technology and Application4 Operation control and protection of smart grid5 Active distribution network technology6 Power electronic technology and application7 New technology of substation automation8 Energy storage technology and application9 Application of new technologies such as artificial intelligence blockchain and big data10 Application of Information and Communication Technology11 Low carbon energy planning and security12 Low carbon operation of the power system13 Low carbon energy comprehensive utilization technology14 Carbon trading and power

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The papers included in this proceeding share the latest research results and practical application examples on the methodologies and algorithms in these areas which makes the book a valuable reference for researchers engineers and university students

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Abstracts from the Current Periodical Literature of Engineering and Applied Science, Published Outside the United Kingdom Institution of Civil Engineers (Great Britain), 1922 **Introduction to Electrical Engineering Science** Harold A. Foecke, 1961 **Computational Intelligence Techniques and Their Applications to Software Engineering Problems** Ankita Bansal, Abha Jain, Sarika Jain, Vishal Jain, Ankur Choudhary, 2020-09-27 *Computational Intelligence Techniques and Their Applications to Software Engineering Problems* focuses on computational intelligence approaches as applicable in varied areas of software engineering such as software requirement prioritization cost estimation reliability assessment defect prediction maintainability and quality prediction size estimation vulnerability prediction test case selection and prioritization and much more The concepts of expert systems case based reasoning fuzzy logic genetic algorithms swarm computing and rough sets are introduced with their applications in software engineering The field of knowledge discovery is explored using neural networks and data mining techniques by determining the underlying and hidden patterns in software data sets Aimed at graduate students and researchers in computer science engineering software engineering information technology this book Covers various aspects of in depth solutions of software engineering problems using computational intelligence techniques Discusses the latest evolutionary approaches to preliminary theory of different solve optimization problems under software engineering domain Covers heuristic as well as meta heuristic algorithms designed to provide better and optimized solutions Illustrates applications including software requirement prioritization software cost estimation reliability assessment software defect prediction and more Highlights swarm intelligence based optimization solutions for software testing and reliability problems SOFSEM 2011: Theory and Practice of Computer Science Ivana Cerná, Tibor

Gyimóthy, Juraj Hromkovič, Keith Jeffery, Rastislav Kralovic, Marko Vukolic, Stefan Wolf, 2011-01-10 This book constitutes the refereed proceedings of the 37th Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2011 held in Nov Smokovec Slovakia in January 2011 The 41 revised full papers presented together with 5 invited contributions were carefully reviewed and selected from 122 submissions SOFSEM 2011 was organized around the following four tracks foundations of computer science software systems and services processing large datasets and cryptography security and trust

Mechanical Engineering Science Monograph, 1965 **Book Catalog of the Library and Information Services Division: Shelf List catalog** Environmental Science Information Center. Library and Information Services Division, 1977

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