

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]

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**Long Cheng, Qingshan Liu, Andrey
Ronzhin**



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Intelligence Science and Big Data Engineering Changyin Sun, Fang Fang, Zhi-Hua Zhou, Wankou Yang, Zhiyong Liu, 2013-11-18 This book constitutes the thoroughly refereed post conference proceedings of the 4th International Conference on Intelligence Science and Big Data Engineering IScIDE 2013 held in Beijing China in July August 2013 The 111 papers presented were carefully peer reviewed and selected from 390 submissions Topics covered include information theoretic and Bayesian approaches probabilistic graphical models pattern recognition and computer vision signal processing and image processing machine learning and computational intelligence neural networks and neuro informatics statistical inference and uncertainty reasoning bioinformatics and computational biology and speech recognition and natural language processing

Shaping Images Thorsten Stephan Beck, 2016-09-12 Images play an outstanding role in the transfer of knowledge They are used in numerous academic disciplines to present scientific results Digital tools such as Adobe Photoshop make it possible to display the information in images brilliantly and clearly at the same time the line between appropriate and inappropriate manipulation is not always easy to draw Scientific journals have published guidelines for handling and editing images but they are not always specific enough to provide clarity for all situations *Shaping Images* examines how scholars from biology information science art history and design deal with this uncertainty how they process and manipulate images where they see their special potential and how they draw the line between appropriate and inappropriate image manipulation The work also looks at scientific journals and lets selected editors have their say What would have to happen to make it possible to combat image manipulation in science more effectively The book s interdisciplinary approach makes it clear how different the practices are and how different the views are on what should be allowed in the processing of images Images this too is problematized in the book are always a means to a certain end which is precisely why the handling of images should be thoroughly reflected upon

The Organization of Information Daniel N. Joudrey, 2025-09-04 Organizing information is at the heart of the information professions and the fifth edition of *The Organization of Information* is a key resource for anyone seeking up to date guidance For millennia information organization has been central to the functioning of libraries and other information institutions The fifth edition of *The Organization of Information* provides a timely detailed introduction to organizing in a variety of information contexts including library cataloging archival description indexing museum registration metadata creation for digital collections organizing on the web linked data and the development of the Semantic Web Examining how and why information professionals organize information in contemporary libraries archives museums and in a variety of online settings expert Daniel N Joudrey addresses the types of retrieval tools used throughout information organizations the functionality of information systems and the role and effect of technology on information organization A discussion of encoding follows explaining the basics of the MARC format several XML schemas and the developing BIBFRAME standard A section on the principles and functionality of

metadata covers metadata types metadata characteristics and tools used to manage metadata projects A timely new chapter on conceptual models and frameworks articulates the visions behind the Library Reference Model LRM Records in Contexts RiC and the Semantic Web including a discussion of RDF as its underlying structural model Finally the latter portion of the book describes practices related to the creation of descriptive metadata Providing a thorough overview of the field s major issues challenges and standards The Organization of Information is an essential resource for students in library and information science programs as well as for established professionals who want to refresh their knowledge of the latest developments in the field

Computing and Combinatorics Yixin Cao,Jianer Chen,2017-07-25 This book constitutes the refereed proceedings of the 23rd International Conference on Computing and Combinatorics COCOON 2017 held in Hiong Kong China in August 2017 The 56 full papers papers presented in this book were carefully reviewed and selected from 119 submissions The papers cover various topics including algorithms and data structures complexity theory and computability algorithmic game theory computational learning theory cryptography computationalbiology computational geometry and number theory graph theory and parallel and distributed computing

Biomedical Engineering Systems and Technologies Joaquim Gabriel,Jan Schier,Sabine Van Huffel,Emmanuel Conchon,Carlos Correia,Ana Fred,Hugo Gamboa,2013-05-14 This book constitutes the thoroughly refereed post conference proceedings of the 5th International Joint Conference on Biomedical Engineering Systems and Technologies BIOSTEC 2012 held in Vilamoura Portugal in February 2012 The 26 revised full papers presented together with one invited lecture were carefully reviewed and selected from a total of 522 submissions The papers cover a wide range of topics and are organized in four general topical sections on biomedical electronics and devices bioinformatics models methods and algorithms bio inspired systems and signal processing health informatics

Neural Information Processing Minho Lee,Akira Hirose,Zeng-Guang Hou,Rhee Man Kil,2013-10-29 The three volume set LNCS 8226 LNCS 8227 and LNCS 8228 constitutes the proceedings of the 20th International Conference on Neural Information Processing ICONIP 2013 held in Daegu Korea in November 2013 The 180 full and 75 poster papers presented together with 4 extended abstracts were carefully reviewed and selected from numerous submissions These papers cover all major topics of theoretical research empirical study and applications of neural information processing research The specific topics covered are as follows cognitive science and artificial intelligence learning theory algorithms and architectures computational neuroscience and brain imaging vision speech and signal processing control robotics and hardware technologies and novel approaches and applications

Advances in Neural Networks - ISNN 2016 Long Cheng,Qingshan Liu,Andrey Ronzhin,2016-07-01 This book constitutes the refereed proceedings of the 13th International Symposium on Neural Networks ISNN 2016 held in St Petersburg Russia in July 2016 The 84 revised full papers presented in this volume were carefully reviewed and selected from 104 submissions The papers cover many topics of neural network related research including signal and image processing dynamical behaviors of recurrent neural networks intelligent control

clustering classification modeling and forecasting evolutionary computation and cognition computation and spiking neural networks

Concrete Permeability and Durability Performance Roberto J. Torrent, Rui D. Neves, Kei-ichi Imamoto, 2021-12-22 Durability and service life design of concrete constructions have considerable socio economic and environmental consequences in which the permeability of concrete to aggressive intruders plays a vital role Concrete Permeability and Durability Performance provides deep insight into the permeability of concrete moving from theory to practice and presents over 20 real cases such as Tokyo s Museum of Western Art Port of Miami Tunnel and Hong Kong Zhuhai Macao sea link including field tests in the Antarctic and Atacama Desert It stresses the importance of site testing for a realistic durability assessment and details the Torrent Method for non destructive measurement of air permeability It also delivers answers for some vexing questions Should the coefficient of permeability be expressed in m^2 or $m \cdot s$ How to get a mean pore radius of concrete from gas permeability tests Why should permeability preferably be measured on site How can service life of reinforced concrete structures be predicted by site testing of gas permeability and cover thickness Practitioners will find stimulating examples on how to predict the coming service life of new structures and the remaining life of existing structures based on site testing of air permeability and cover thickness Researchers will value theoretical principles testing methods as well as how test results reflect the influence of concrete mix composition and processing

New Perspectives in Software Engineering Jezreel Mejia, Mirna Muñoz, Álvaro Rocha, Yadira Quiñonez, 2020-11-06 This book contains a selection of papers from the 2020 International Conference on Software Process Improvement CIMPS 20 held between the 21st and 23rd of October in Mazatlán Sinaloa México The CIMPS 20 is a global forum for researchers and practitioners that present and discuss the most recent innovations trends results experiences and concerns in the several perspectives of Software Engineering with clear relationship but not limited to software processes Security in Information and Communication Technology and Big Data Field The main topics covered are Organizational Models Standards and Methodologies Software Process Improvement Knowledge Management Software Systems Applications and Tools Information and Communication Technologies and Processes in Non software Domains mining automotive aerospace business health care manufacturing etc with a demonstrated relationship to Software Engineering Challenges

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The Role of Teacher Interpersonal Variables in Students' Academic Engagement, Success, and Motivation Ali Derakhshan, Reza Pishghadam, Anna Mystkowska-Wiertelak, 2022-07-05

Handbook of Research on Contemporary Perspectives on Web-Based Systems Elçi, Atilla, 2018-05-04 Information systems development underwent many changes as systems transitioned onto web based forums Complemented by advancements in security and technology internet based systems have become an information mainstay The Handbook of Research on Contemporary Perspectives on Web Based Systems is a critical scholarly resource that examines relevant theoretical frameworks current practice guidelines industry

standards and the latest empirical research findings in web based systems Featuring coverage on a wide range of topics such as data integration mobile applications and semantic web this publication is geared toward computer engineers IT specialists software designers professionals researchers and upper level students seeking current and relevant research on the prevalence of these systems and advancements made to them **Government Reports Announcements & Index**
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ANESTHESIA_TECH_COMPET... Instructions: This checklist is meant to serve as a general guideline for our client facilities as to the level of your skills within your nursing specialty. Anesthesia Technology (AS - 1351999901) Complete hospital annual competency checklist which may include Auto transfusion; Stat lab; ACT; Waste Gas Survey; laser safety; Bronchoscope cleaning and ... 1994 Oldsmobile Cutlass Supreme - Owner's Manual This will help you learn about the features and controls for your vehicle. In this manual, you'll find that pictures and words work together to explain things ... 1994 OLDSMOBILE CUTLASS CIERA 3.1L V6 Owners ... RockAuto ships auto parts and body parts from over 300 manufacturers to customers' doors worldwide, all at warehouse prices. Easy to use parts catalog. 1994 Oldsmobile Cutlass Ciera Owners Manual ASIN, B000W1X7VG. Publisher, General Motors (January 1, 1993). Paperback, 0 pages. Item Weight, 9.6 ounces. Best Sellers Rank. 1994 OLDSMOBILE CUTLASS/CIERA CRUISER ... - eBay 1994 OLDSMOBILE CUTLASS/CIERA CRUISER OWNER'S MANUAL ; Year of Publication. 1999 ; Make. Case ; Accurate description. 4.8 ; Reasonable shipping cost. 4.6 ; Shipping ... Oldsmobile Owner's Manual 1994 Cutlass Ciera ... Find many great new & used options and get the best deals for Oldsmobile Owner's Manual 1994 Cutlass Ciera/Cutlass Cruiser OEM at the best online prices at ... 1994 Oldsmobile Cutlass Ciera Owners Manual Book ... 1994 Oldsmobile Cutlass Ciera Owners Manual Book Guide OEM Used Auto Parts. SKU:233852. In stock. We have 1 in stock. Regular price \$ 17.15 Sale. 1994 Oldsmobile Cutlass Ciera - Repair Manual - General A repair manual is a useful tool when maintaining your car. Repair manuals index information like descriptions, diagrams, and service and part replacement ... Oldsmobile Cutlass Ciera Service, Shop & Owner's Manuals Shop for Oldsmobile Cutlass Ciera service manuals, owner's manuals and shop manuals - perfect for repair & maintenance of your Cutlass Ciera. 1994 Oldsmobile Cutlass Ciera Repair Manual Online Factory-Authorized Online 1994 Oldsmobile Cutlass Ciera Repair Manual · Step-by-step factory recommended repair instructions. · Thousands of illustrations and ... Oldsmobile Cutlass Supreme 1994 Owner's Manual View and Download Oldsmobile Cutlass Supreme 1994 owner's manual online. Cutlass Supreme 1994 automobile pdf manual download.