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Km. zero

2023

each unit in the new abacus programme begins with whole class teaching all the direct teaching to introduce a concept is on the front of the teacher card the back has further teaching references to differentiated practical activities workbook or textbook pages and photocopy masters

Kilometer Zero : Personal Essays

2016

your comprehensive guide to fiber optics fundamentals and advancements taking place in this field synopsis this book provides solid base in fiber optics communications for b tech and m tech students and also for practicing engineers and research scholars in this field the book contains more than 650 illustrations which give a comprehensive coverage of the technology involved in the fiber optics communications this book gives an in depth coverage of telecommunications fundamentals optical fiber transmission characteristics optical fiber manufacturing and cables signal degradation distortion in optical fibers optical fiber nonlinearities and their management optical sources and receivers optical amplifiers sonet sdh otn dwdm ofdm and super channels connectors and couplers fiber optic link design optical networks and cloud computing review of fiber optic sensors and their applications fiber optics sensors are altogether a different field in latest sensor technology advance technologies in fiber optics communications covering ftth technologies otdr nanophotonics low signal latency in optical fibers and fabrication and simulation of optical fibers and their optical parameters by opti wave software

Bio a km zero

2011

an advanced level examination of the latest developments in power transformer protection this book addresses the technical challenges of transformer malfunction analysis as well as protection one of the current research directions is the malfunction mechanism analysis due to nonlinearity of transformer core and comprehensive countermeasures on improving the performance of transformer differential protection here the authors summarize their research outcomes and present a set of recent research advances in the electromagnetic transient analysis the application on power transformer protections and present a more systematic investigation and review in this field this research area is still progressing especially with the fast development of smart grid this book is an important addition to the literature and will enhance significant advancement in research it is a good reference book for researchers in power transformer protection research and a good text book for graduate and undergraduate students in electrical engineering chapter headings include transformer differential protection principle and existing problem analysis malfunction mechanism analysis due to nonlinearity of transformer core novel analysis tools on operating characteristics of transformer differential protection novel magnetizing inrush identification schemes comprehensive countermeasures on improving the performance of transformer differential protection an advanced level examination of the latest developments in power transformer protection presents a new and systematic view of power transformer protection enabling readers to design new models and consider fresher design approaches offers a set of approaches to optimize the power system from a microeconomic point of view

Jack... Km zero. Una strada ancora da vivere

2019

many students engineers scientists and researchers have benefited from the practical programming oriented style of the previous editions of programming the finite element method learning how to

develop computer programs to solve specific engineering problems using the finite element method this new fifth edition offers timely revisions that include programs and subroutine libraries fully updated to fortran 2003 which are freely available online and provides updated material on advances in parallel computing thermal stress analysis plasticity return algorithms convection boundary conditions and interfaces to third party tools such as paraview metis and arpack as in the previous editions a wide variety of problem solving capabilities are presented including structural analysis elasticity and plasticity construction processes in geomechanics uncoupled and coupled steady and transient fluid flow and linear and nonlinear solid dynamics key features updated to take into account advances in parallel computing as well as new material on thermal stress analysis programs use an updated version of fortran 2003 includes exercises for students accompanied by website hosting software programming the finite element method fifth edition is an ideal textbook for undergraduate and postgraduate students in civil and mechanical engineering applied mathematics and numerical analysis and is also a comprehensive reference for researchers and practitioners further information and source codes described in this text can be accessed at the following web sites inside mines edu vgriffit pfem5 for the serial programs from chapters 4 11 parafem org uk for the parallel programs from chapter 12

Abacus Yr6/P7: Teacher Cards

2001-02-19

these proceedings highlight the fundamental researches and up to data developments on energy conversion and high voltage application by means of low temperature and atmospheric pressure plasma in recent years plasma assisted energy conversion gains increasing attention as an alternative to thermal catalysis or electro catalysis these proceedings discuss and exchange cutting edge scientific innovations and technological advances in fields like plasma enabled synthesis of chemicals and fuels plasma enabled the environmental clean up plasma enabled catalysis treatment in situ probing of plasma catalyst interactions and its high voltage applications which show great potentials in industrial demands like co2 hydrogenation ch4 reforming and nitrogen fixation plasma deposition chemical synthesis voc abatement and high voltage insulation this collection of papers presents the main applications of plasma induced energy conversion and high voltage discharge in the form of separate chapters including cutting edge studies on conversion technology complex mechanism simulation in situ detection and converged applications by artificial intelligence these proceedings are suitable for researchers engaged in fields like plasma catalysis discharge diagnosis and modelling chemical modelling and high voltage applications the major topics covered in the conference proceedings are 1 advanced plasma catalysis conversion technology 2 advanced in situ discharge diagnosis technology 3 advanced in situ plasma catalysis characterization 4 multi scale or innovative modelling technology 5 high voltage discharge and application

Poesie a km zero

2012

this book is a collection of the work of a group of artists who accepted polyedra s invitation to celebrate the past present and future of the close collaboration between swiss and italian designers p 5

Fiber Optics Fundamentals and Advances in Optical Communications

2021-02-10

access to safe water is a fundamental human need and therefore a basic human right kofi annan united nations secretary general edited by two world renowned scientists in the field the handbook of water and wastewater microbiology provides a definitive and comprehensive coverage of water and wastewater microbiology with contributions from experts from around the world this book gives a global perspective on the important issues faced in the provision of safe drinking water the problems of dealing with aquatic pollution and the processes involved in wastewater management starting with an introductory chapter of basic microbiological principles the handbook of water and wastewater microbiology develops these principles further ensuring that this is the essential text for process engineers with little microbiological experience and specialist microbiologists alike comprehensive selection of reviews dealing with drinking water and aquatic pollution provides an understading of basic microbiology and how it is applied to engineering process solutions suitable for all levels of knowledge in microbiology from those with no background to specialists who require the depth of information

Electromagnetic Transient Analysis and Novel Protective Relaying Techniques for Power Transformers

2015-03-02

this proceedings volume brings together selected peer reviewed papers presented at the 2014 international conference on frontier of energy and environment engineering topics covered include energy efficiency and energy management energy exploration and exploitation power generation technologies water pollution and protection air pollution and

Progress on NASA Research Relating to Noise Alleviation of Large Subsonic Jet Aircraft

1968

environment energy and sustainable development brings together 242 peer reviewed papers presented at the 2013 international conference on frontiers of energy and environment engineering held in xiamen china november 28 29 2013 the main objective of this proceedings set is to take the environment energydevelopments discussion a step further vo

The Proceedings of the 18th Annual Conference of China Electrotechnical Society

2013-09-05

the 3 volume set ccis 1422 ccis 1423 and ccis 1424 constitutes the refereed proceedings of the 7th international conference on artificial intelligence and security icaais 2021 which was held in dublin ireland in july 2021 the total of 131 full papers and 52 short papers presented in this 3 volume proceedings was carefully reviewed and selected from 1013 submissions the papers were organized in topical sections as follows part i artificial intelligence part ii artificial intelligence big data cloud computing and security internet part iii cloud computing and security encryption and cybersecurity information hiding iot security

Programming the Finite Element Method

2023-05-23

after many decades spent in astronomical semi obscurity the moon has of late suddenly emerged to claim renewed interest on the part of the students of astronomy as well as of other branches of physical science and technology and the reasons which brought this about are indeed of historical significance from time immemorial astronomy has been debarred from the status of a gen uine experimental science by the utter remoteness of the objects of its study with the exception of meteors those small freaks of cosmic matter intercepted by the earth on its perpetual journey through space the properties of all celestial bodies outside the gravitational confines of our planet could be studied only at a distance namely from the effect of attraction exerted by their masses or from the ciphered message of their light brought to us by nimble footed photons across the intervening gaps of space a dramatic emergence of long range rockets in the last decade bids fair to bring about a profound change in this situation on september 13 1959 a memorable date in the history of human endeavour a man made missile of russian origin crash landed on the surface of the moon in the region of its mare imbrium and thus ended the age long separation of the earth and its only natural satellite which lasted not less than 4t billion years

Proceedings of the 4th International Symposium on Plasma and Energy Conversion

2011

presents a complete mathematical description of diffractions caused by seismic velocity discontinuities diffraction theory provides important physical insights into seismology and is a necessary part of describing the nature of a seismogram the author describes elastic wave theory and relates it to the high frequency approximations of ray theory

Polyedra Presents Italian Design is Coming Home, to Switzerland

2003-08-07

as future generation electrical information engineering and mechatronics become specialized and fragmented it is easy to lose sight of the fact that many topics in these areas have common threads and because of this advances in one discipline may be transmitted to others the 2011 international conference on electrical information engineering and mechatronics eiem 2011 is the first conference that attempts to follow the above idea of hybridization in electrical information engineering mechatronics and applications this proceedings of the 2011 international conference on electrical information engineering and mechatronics provides a forum for engineers and scientists to address the most innovative research and development including technical challenges and social legal political and economic issues and to present and discuss their ideas results works in progress and experience on all aspects of electrical information engineering mechatronics and applications engineers and scientists in academia industry and government will find a insights into the solutions that combine ideas from multiple disciplines in order to achieve something more significant than the sum of the individual parts in all aspects of electrical information engineering mechatronics and applications

Handbook of Water and Wastewater Microbiology

2015-01-29

this title demonstrates how to develop computer programmes which solve specific engineering problems using the finite element method it enables students scientists and engineers to assemble their own computer programmes to produce numerical results to solve these problems the first three editions of programming the finite element method established themselves as an authority in this area this fully revised 4th edition includes completely rewritten programmes with a unique description and list of parallel versions of programmes in fortran 90 the fortran programmes and subroutines described in the text will be made available on the internet via anonymous ftp further adding to the value of this title

Environment, Energy and Applied Technology

2014

tropical cyclones are a major threat to life and property even in the formative stages of their development they include a number of different hazards that individually can cause significant impacts such as extreme winds storm surge flooding tornadoes and lightning tropical cyclones observations and basic processes provides a modern overview of the theory and observations of tropical cyclone structure and behavior the book begins by summarizing key observations of the structure evolution and formation of tropical cyclones it goes on to develop a theoretical foundation for a basic understanding of tropical cyclone behavior during the storm s life cycle horizontally two dimensional dynamics of vortex motion and other non axisymmetric features are considered first before tackling the axisymmetric balance dynamics involving the overturning circulation following a review of moist convective processes later chapters focus mainly on a range of three dimensional aspects of the tropical cyclone life cycle building from first principles the book provides a state of the art summary of the fundamentals of tropical cyclones aimed at advanced undergraduates graduate students tropical meteorologists and researchers members of the royal meteorological society are eligible for a 35 discount on all developments in weather and climate science series titles see the rmets member dashboard for the discount code develops a systematic foundation for understanding tropical cyclone dynamics and thermodynamics in two and three dimensions provides a detailed appraisal of steady state models and the widely accepted but enigmatic wishe intensification theories applies the new ideas developed in the book to a range of basic problems including observational tests of the theory

Pillole di Management di Strada

2013-12-17

currently the acquisition of seismic surveys is performed as a sequential operation in which shots are computed separately one after the other this approach is similar to that of multiple access technology which is widely used in cellular communications to allow several subscribers to share the same telephone line the cost of performing various shots simultaneously is almost identical to that of one shot thus the savings in time and money expected from using the multishooting approach for computing seismic surveys compared to the current approach are enormous by using this approach the long standing problem of simulating a three dimensional seismic survey can be reduced to a matter of weeks and not years as is currently the case investigates how to collect stimulate and process multishooting data addresses the improvements in seismic characterization and resolution one can expect from multishooting data aims to educate the oil and gas exploration and production business of the benefits of multishooting data and to influence their day to day surveying techniques

Environment, Energy and Sustainable Development

2021-06-29

the fao elearning academy together with future food institute organized the second edition of the 24 hour global digital marathon for sustainability entitled food for earth in 2021 the event was a knowledge sharing collaborative initiative fully aligned with the united nations sustainable development goals agenda 2030 and fao s strategic framework the marathon has proven to be an extremely powerful initiative to raise awareness among entrepreneurs startups scientists journalists young leaders policymakers general public farmers and indigenous peoples on the importance of environmental economic and social sustainability the publication aims at gathering the multilingual work sessions spread out across the globe all focusing on the regenerative power of food systems overall the 2021 marathon had a fantastic global impact bringing together more than 160 expert voices in 30 main work sessions in english french italian and spanish reaching more than 150 000 views worldwide and a global coverage from over 100 online journals tv channels and networks in addition ministers and government representatives from more than 30 countries contributed and endorsed the event as a result participating countries have proposed and committed to implement more than 100 climate actions

Advances in Artificial Intelligence and Security

2012-12-06

in my first book on electric cars i covered those which were available in the us in my new book i decided to cover the world i also venture into electric planes and evtols electric vertical takeoff and landing machines even though evs are very interesting you might get bored after the 100th or so to relieve your boredom i inserted stories about my visits from a couple of outer space aliens who are very interested in electric cars who says you can t mix research books with sci fi and humor i start with the most popular evs i cover many parts of the globe and i cover lesser known electric cars some places around the world don t have good roads or the roads are too crowded there electric motorcycles rickshaws and other vehicles are more popular than electric cars and did you know that there s an electric skateboard electric cars come in several models sedans suvs crossovers hatchbacks etc there are even little electric bubble cars and there s a amphibious e tricycle camper now is a good time to get into an ev there s availability you ll get good range and you ll save money on gas and maintenance besides bans on ice vehicles internal combustion engine petrol powered cars are coming maybe not tomorrow but soon and supermost of all owning an ev is cool and the wave of the future and you want to get into the action now because you want to ride the crest of the wave some people are still worried about what happens if the battery dies i cover that good news not a problem i also cover converting your car to an ev or rather hiring someone to do that for you and ev rentals i conclude the book with what it would take to own an ev dealership my ev choices and statements by world leaders on evs i evaluate the more popular cars and provide a blank evaluation form so you can make your own evaluations this book is packed with information but i keep it light so you won t get bored actually that s not true i kept it light so that i wouldn t get bored

Measure of the Moon

1994

this enzymology textbook for graduate and advanced undergraduate students covers the syllabi of most universities where this subject is regularly taught it focuses on the synchrony between the two broad mechanistic facets of enzymology the chemical and the kinetic and also highlights the synergy between enzyme structure and mechanism designed for self study it explains how to plan enzyme experiments and subsequently analyze the data collected the book is divided into five major sections 1 introduction to enzymes 2 practical aspects 3 kinetic mechanisms 4 chemical mechanisms and 5 enzymology frontiers individual concepts are treated as stand alone chapters readers can explore any single concept with minimal cross referencing to the rest of the book further complex approaches requiring specialized techniques and involved experimentation beyond the reach of an average laboratory are covered in theory with suitable references to guide readers the book provides students researchers and academics in the broad area of biology with a sound theoretical and practical knowledge of enzymes it also caters to those who do not have a practicing enzymologist to teach them the subject

Theory of Seismic Diffractions

2012-03-14

questo libro è nato per aiutare tutte le donne imprenditrici in particolare le piccole medie imprese a focalizzare la propria azienda e differenziarsi dalla concorrenza un libro molto pratico ricco di esempi copia e incolla da studiare comprendere adattare e duplicare in base alle proprie esigenze alla fine di ogni capitolo trovi un riassunto in quattro punti una strana introduzione al libro il coach delle donne vs l'esperto di comunicazione nel beauty chi ha ragione nella prima parte del libro acquisirai le basi per capire come puoi focalizzarti al meglio con quattro esempi pratici per focalizzare la tua attività nella seconda imparerai a differenziarti da tutti i tuoi concorrenti con sette esempi per essere diversa dalla tua concorrenza la terza è dedicata alla creazione dei contenuti che ti servono per educare la tua clientela in particolar modo attraverso i contenuti video nella quarta ed ultima parte troverai dieci interviste a imprenditrici reali leggile con particolare attenzione e curiosità le loro storie non sono solamente stimolanti dal punto di vista motivazionale ma vere e proprie case history

Electrical, Information Engineering and Mechatronics 2011

2004-10-01

the book starts from the existed problems in fault analysis of the lumped parameter circuit model it firstly introduces the basic electromagnetic phenomenon uniform transmission line guided electromagnetic waves multi conductor system guided electromagnetic waves fault generated travelling waves then it introduces series of the traveling waves based protections which includes principle technology and application in practical power grid it also discusses the travelling waves based fault location and the travelling waves based fault feeder selector in china it systemically reveals the essential features of the fault traveling wave and concludes the analytical solutions of the transient fault traveling waves and the modulus maxima representation of the dyadic wavelet transform of fault traveling waves finally the book analyzes the acquisition of traveling waves and the sensor's characteristics a unique fault travelling wave test device has been invented based on the theories of the book and will be applied in real systems

Programming the Finite Element Method

2018

this book develops novel digital distance relaying schemes to eliminate the errors produced by the conventional digital distance relays while protecting power transmission lines against different types of faults these include high resistance ground faults on single infeed transmission lines high resistance ground faults on double infeed transmission lines simultaneous open conductor and ground fault on double infeed transmission lines inter circuit faults on parallel transmission lines simultaneous open conductor and ground fault on series compensated parallel transmission lines inter circuit faults on series compensated parallel transmission lines and phase faults on series compensated double infeed transmission lines this monograph also details suggestions for further work in the area of digital protection of transmission lines the contents will be useful to academic as well as professional researchers working in transmission line protection

Apprendimento a km zero

2005-01-01

2010 first international conference on electrical and electronics engineering was held in wuhan china december 4 5 advanced electrical and electronics engineering book contains 72 revised and extended research articles written by prominent researchers participating in the conference topics covered include power engineering telecommunication control engineering signal processing integrated circuit electronic amplifier nano technologies circuits and networks microelectronics analog circuits digital circuits nonlinear circuits mixed mode circuits circuits design sensors cad tools dna computing superconductivity circuits electrical and electronics engineering will offer the state of art of tremendous advances in electrical and electronics engineering and also serve as an excellent reference work for researchers and graduate students working with on electrical and electronics engineering

Plates, Plumes, and Paradigms

2023-09-22

this book presents the state of the art approach for transmission line protection schemes for smart power grid it provides a comprehensive solution for real time development of numerical relaying schemes for future power grids which can minimize cascade tripping and widespread blackout problems prevailing all around the world the book also includes the traditional approach for transmission line protection along with issues and challenges in protection philosophy it highlights the issues for sheltering power grid from unwanted hazards with very fundamental approach the book follows a step by step approach for resolving critical issues like high impedance faults power swing detection and auto reclosing schemes with adaptive protection process the book also covers the topic of hardware solution for real time implementation of auto reclosing scheme for transmission line protection schemes along with comparative analysis with the recently developed analytical approach such as artificial neural network ann support vector machine svm and other machine learning algorithms it will be useful to researchers and industry professionals and students in the fields of power system protection

Tropical Cyclones

2010-03-29

nowadays the increasing use of power electronics equipment origins important distortions the perfect ac power systems are a pure sinusoidal wave both voltage and current but the ever increasing existence of non linear loads modify the characteristics of voltage and current from the ideal sinusoidal wave this deviation from the ideal wave is reflected by the harmonics and although its effects vary depending on the type of load it affects the efficiency of an electrical system and can cause considerable damage to the systems and infrastructures ensuring optimal power quality after a good design and devices means productivity efficiency competitiveness and profitability nevertheless nobody can assure the optimal power quality when there is a good design if the correct testing and working process from the obtained data is not properly assured at every instant this entails processing the real data correctly in this book the reader will be introduced to the harmonics analysis from the real measurement data and to the study of different industrial environments and electronic devices

Coding and Decoding: Seismic Data

2022-04-22

in this volume strategic coercion war by other means Lt gen dr js bajwa indian defence review comment small quick launch satellites future of space action time india air marshal anil chopra russian electronic warfare in ukraine 2022 2023 col mandeep singh hypersonic weapon systems for india gp capt ak sachdev to transform or to perish Lt gen vk saxena impact of uavs on strategic air warfare gp capt ak sachdev maritime cyber security concerns vice admiral mp muralidharan economic and technological overview of indian national power prashant sharma theatre commands apprehensions challenges and alternatives gp capt pk mulay how did new delhi crush militancy in kashmir ramananda sengupta strategic readiness Lt gen nb singh aerospace and defence news priya tyagi taliban s failed coup to establish a foothold in afghan embassy in india neelapu shanti poonch terror attack exposes pakistan s duplicity Nilesh Kunwar Pakistan in spirals Lt gen Rameshwar Yadav Chipping the chip industry Lt gen Prakash Katoch the nfu saga of armed forces degradation brig Deepak Sinha internal cohesion key to military prowess Lt gen Gautam Banerjee digging the tank dens Claude Arpi

Power Quality Enhancement of Wind Energy Systems

2018-11-11

24-hour Global Marathon for Sustainability - Food for Earth (2021)

2020-10-08

EV - Electric Vehicles Come Home

2022-03-19

ENZYMES: Catalysis, Kinetics and Mechanisms

2016-06-21

Distinguersi per non Morire!

2011-04-13

The Theory of Fault Travel Waves and Its Application

2020-10-17

Transmission Line Protection Using Digital Technology

2011-11-23

Advanced Electrical and Electronics Engineering

2012

Longman science Physics 9

Futuristic Trends in Numerical Relaying for Transmission Line Protections

Power Quality

Prezzario delle opere di ristrutturazione e recupero.

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