Free ebook V rajaraman fundamentals of computers fourth edition (Download Only)

FUNDAMENTALS OF COMPUTERS Fundamentals of Computers Fundamentals of Computers INTRODUCTION TO INFORMATION TECHNOLOGY Introduction to Information Technology Fundamentals of Computer Computer Fundamentals Analysis and Design of Information Systems AN INTRODUCTION TO DIGITAL COMPUTER DESIGN COMPUTER BASICS AND C PROGRAMMING Mining of Massive Datasets COMPUTER ORIENTED NUMERICAL METHODS COMPUTER ORGANIZATION AND ARCHITECTURE DIGITAL LOGIC AND COMPUTER ORGANIZATION ESSENTIALS OF E-COMMERCE TECHNOLOGY Introduction to Computer Science PARALLEL COMPUTERS ARCHITECTURE AND PROGRAMMING An Introduction to Digital Computer Design Introduction to Information Retrieval Fundamentals of Information Technology COMPUTER PROGRAMMING IN FORTRAN 90 AND 95 GROUNDBREAKING INVENTIONS IN INFORMATION AND COMMUNICATION TECHNOLOGY Fundamentals of Computers COMPUTER PROGRAMMING IN FORTRAN 77 Data Mining and Machine Learning Computer Concepts and Programming in C Chemical Thermodynamics: Classical, Statistical and Irreversible Foundations of Data Science Computer Fundamentals and Applications Computer Fundamentals The Technological Indian Fundamentals of Computers COMPUTER PROGRAMMING IN C, SECOND EDITION Fundamentals of Computers Principles of Quantum Mechanics Let Us C: Authentic Guide to C PROGRAMMING Language 17th Edition (English Edition) From Landfill Gas to Energy PROBLEM SOLVING WITH C Fundamentals of Solar Cell Design Computer Oriented Numerical Methods

FUNDAMENTALS OF COMPUTERS

2014-12-15

the sixth edition of the highly acclaimed fundamentals of computers lucidly presents how a computer system functions both hardware and software aspects of computers are covered the book begins with how numeric and character data are represented in a computer how various input and output units function how different types of memory units are organized and how data is processed by the processor the interconnection and communication between the i o units the memory and the processor is explained clearly and concisely software concepts such as programming languages operating systems and communication protocols are discussed with growing use of wireless to access computer networks cellular wireless communication systems wifi wireless high fidelity and wimax have become important thus it has now become part of fundamental knowledge of computers and has been included besides this use of computers in multimedia processing has become commonplace and hence is discussed with the increase in speed of networks and consequently the internet new computing environments such as peer to peer grid and cloud computing have emerged and will change the future of computing hence a new chapter on this topic has been included in this edition this book is an ideal text for undergraduate and postgraduate students of computer applications bca and mca undergraduate students of engineering and computer science who study fundamentals of computers as a core course and students of management who should all know the basics of computer hardware and software it is ideally suited for working professionals who want to update their knowledge of fundamentals of computers key features fully updated retaining the style and all contents of the fifth edition in depth discussion of both wired and wireless computer networks extensive discussion of analog and digital communications advanced topics such as multiprogramming virtual memory dma risc dsp rfid smart cards wigig gsm cdma novel i o devices and multimedia compression mp3 mpeg are described from first principles a new chapter on emerging computing environments namely peer to peer grid and cloud computing has been added for the first time in an entry level book each chapter begins with learning goals and ends with a summary to aid self study includes an updated glossary of over 340 technical terms used in the book

Fundamentals of Computers

2004-08

his textbook is designed to teach a first course in information technology it to all undergraduate students in view of the all pervasive nature of it in today s world a decision has been taken by many universities to introduce it as a compulsory core course to all bachelor s degree students regardless of their specialisation this book is intended for such a course the approach taken in this book is to emphasize the fundamental science of information technology rather than a cook book of skills skills can be learnt easily by practice with a computer and by using instructions given in simple web lessons that have been cited in the references the book defines information technology as the technology that is used to acquire store organize process and disseminate processed data namely information the unique aspect of the book is to examine processing all types of data numbers text images audio and video data as it is a rapidly changing field we have taken the approach to emphasize reasonably stable fundamental concepts on which the technology is built a unique feature of the book is the discussion of topics such as image audio and video compression technologies from first principles we have also described the latest technologies such as e wallets and cloud computing the book is suitable for all bachelor s degree students in science arts computer applications and commerce it is also useful for general reading to learn about it and its latest trends those who are curious to know the principles used to design jpg mp3 and mpeg4 compression the image formats bmp tiff gif png and jpg search engines payment systems such as bhim and paytm and cloud computing to mention a few of the technologies discussed will find this book useful key features provides comprehensive coverage of all basic concepts of it from first principles explains acquisition compression storage organization processing and dis semination of multimedia data simple explanation of mp3 jpg and mpeg4 compression explains how computer networks and the internet work and their applications covers business data processing world wide e commerce and it laws discusses social impacts of it and career opportunities in it and it enabled services designed for self study with every chapter starting with learning objectives and concluding with a comprehensive summary and a large number of exercises

Fundamentals of Computers

1996

computer fundamentals is specifically designed to be used at the beginner level it covers all the basic hardware and software concepts in computers and its peripherals in a very lucid manner

INTRODUCTION TO INFORMATION TECHNOLOGY

2018-01-01

this highly acclaimed well established book now in its fifth edition is intended for an introductory course in digital computer design for b sc students of computer science b tech students of computer science and engineering and bca mca students of computer applications a knowledge of programming in c or java would be useful to give the student a proper perspective to appreciate the development of the subject the first part of the book presents the basic tools and developes procedures suitable for the design of digital circuits and small digital systems it equips students with a firm understanding of logic principles before they study the intricacies of logic organization and architecture of computers in the second part besides discussing data representation arithmetic operations boolean algebra and its application in designing combinatorial and sequential switching circuits the book introduces the algorithmic state machines which are used to develop a hardware description language for the design of digital systems the organization of a small hypothetical computer is described to illustrate how instruction sets are evolved real computers namely pentium and mips machines are described and compared with the hypothetical computer after discussing the features of a cpu i o devices and i o organization cache and virtual memory the book concludes with a new chapter on the use of parallelism to enhance the speed of computers besides the fifth edition has new material in cmos gates msi alu and pentium5 architecture the chapter on cache and virtual memory has been rewritten

Introduction to Information Technology

2003-01-01

this book introduces students to the basics of computers software and internet along with how to program computers using the c language it is intended for an introductory course that gives beginning engineering and science students a firm rooting in the fundamental principles of computers and information technology and also provides invaluable insights into key concepts of computing through development of skills in programming and problem solving using c language to this end the book is eminently suitable for the first year engineering students of all branches and mca students as per the prescribed syllabus of several universities c is a difficult language to learn if it is not methodically introduced the book explains c and its basic programming techniques in a way suitable for beginning students it begins by giving students a solid foundation in algorithms to help them grasp the overall concepts of programming a computer as a problem solving tool simple aspects of c are introduced first to enable students to quickly start writing programs more difficult concepts in the latter parts of the book such as pointers and their use have been presented in an accessible manner making the learning of c an exciting and interesting experience the methodology used is to illustrate each new concept with a program and emphasize a good style in programming to allow students to gain sufficient skills in problem solving key features self contained introduction to both computers and programming for beginners all important features of c illustrated with over 100 examples good style in programming emphasized laboratory exercises on applications of ms office namely word processing spreadsheet powerpoint are included

Fundamentals of Computer

1996

now in its second edition this book focuses on practical algorithms for mining data from even the largest datasets

Computer Fundamentals

2010-09

this book is a concise and lucid introduction to computer oriented numerical methods with well chosen graphical illustrations that give an insight into the mechanism of various methods the book develops computational algorithms for solving non linear algebraic equation sets of linear equations curve fitting integration differentiation and solving ordinary differential equations outstanding features elementary presentation of numerical methods using computers for solving a variety of problems for students who have only basic level knowledge of mathematics geometrical illustrations used to explain how numerical algorithms are evolved emphasis on implementation of numerical algorithm on computers detailed discussion of ieee standard for representing floating point numbers algorithms derived and presented using a simple english based structured language truncation and rounding errors in numerical calculations explained each chapter starts with learning goals and all methods illustrated with numerical examples appendix gives pointers to open source libraries for numerical computation

Analysis and Design of Information Systems

2008-03-01

designed as an introductory text for the students of computer science computer applications electronics engineering and information technology for their first course on the organization and architecture of computers this accessible student friendly text gives a clear and in depth analysis of the basic principles underlying the subject this self contained text devotes one full chapter to the basics of digital logic while the initial chapters describe in detail about computer organization including cpu design alu design memory design and i o organization the text also deals with assembly language programming for pentium using nasm assembler what distinguishes the text is the special attention it pays to cache and virtual memory organization as well as to risc architecture and the intricacies of pipelining all these discussions are climaxed by an illuminating discussion on parallel computers which shows how processors are interconnected to create a variety of parallel computers key features self contained presentation starting with data representation and ending with advanced parallel computer architecture systematic and logical organization of topics large number of worked out examples and exercises contains basics of assembly language programming each chapter has learning objectives and a detailed summary to help students to quickly revise the material

AN INTRODUCTION TO DIGITAL COMPUTER DESIGN

2008-08-19

this introductory text on digital logic and computer organization presents a logical treatment of all the fundamental concepts necessary to understand the organization and design of a computer it is designed to cover the requirements of a first course in computer organization for undergraduate computer science electronics or mca students beginning from first principles the text guides students through to a stage where they are able to design and build a small computer with available ic chips starting with the foundation material on data representation computer arithmetic and combinatorial and sequential circuit design the text explains alu design and includes a discussion on an alu ic chip it also discusses algorithmic state machine and its representation using a hardware description language before shifting to computer organization the evolutionary development of a small hypothetical computer is described illustrating hardware software trade off in computer organization its instruction set is designed giving reasons why each new instruction is introduced this is followed by a description of the general features of a cpu organization of main memory and i o systems the book concludes with a chapter describing the features of a real computer namely the intel pentium an appendix describes a number of laboratory experiments which can be put together by students culminating in the design of a toy computer key features self contained presentation of digital logic and computer organization with minimal pre requisites large number of examples provided throughout the book each chapter begins with learning goals and ends with a summary to aid self study by students

COMPUTER BASICS AND C PROGRAMMING

2014-11-13

this book is designed to acquaint the readers with major aspects of e commerce with particular emphasis on technology such as cryptography e payment and mobile payment security the book presents a layered architecture of e commerce systems with six layers the physical layer the bottommost layer described first provides the basic communication infrastructure needed by e commerce the next layer described is the logical layer consisting of local area networks the internet intranet etc which provide connectivity the layer above is the network services layer which provides e mail and world wide applications above this is a very important messaging layer of e commerce which provides facilities for exchanging messages securely using the communication infrastructure here various methods of encryption public key infrastructure and digital signature are discussed it is also explained as to how the messaging layer is used to exchange structured electronic documents using xml the next layer called middleman services layer describes the design of home page of an organization and elaborates various payment services such as credit card e cash smart card etc the topmost layer is on applications namely b2c b2b and c2c e commerce which are defined and described at the beginning of the book as use of mobile phones and mobile network is rapidly increasing a whole chapter is devoted to explain m commerce of special interest are detailed discussions of wireless application protocol security issues and payment methods a complete chapter is also devoted to new developments in multimedia information goods such as e books mp3 compressed audio and digital quality video a unique feature of these goods is the method of delivery which also uses the mobile internet infrastructure finally the legal framework of e commerce provided by the information technology act 2000 and the amended act of 2008 is explained this book with its numerous student friendly features is an ideal text for undergraduate and postgraduate students of computer science and information technology bsc and msc computer applications bca and mca and for undergraduate engineering students of computer science and engineering and information technology besides it would be useful to professionals for quickly understanding the basics of e commerce key features gives detailed discussions of security and payment schemes in e commerce discusses essentials of m commerce technology including wap protocol and mobile security discusses e commerce of multimedia such as e books mp3 audio and video on demand provides learning aids such as chapter summaries over 300 review questions and 350 objective type questions

Mining of Massive Datasets

2018-11-01

discusses most ideas behind a computer in a simple and straightforward manner the book is also useful to computer enthusiasts who wish to gain fundamental knowledge of computers

COMPUTER ORIENTED NUMERICAL METHODS

2007-06-01

today all computers from tablet desktop computers to super computers work in parallel a basic knowledge of the architecture of parallel computers and how to program them is thus essential for students of computer science and it professionals in its second edition the book retains the lucidity of the first edition and has added new material to reflect the advances in parallel computers it is designed as text for the final year undergraduate students of computer science and engineering and information technology it describes the principles of designing parallel computers and how to program them this second edition while retaining the general structure of the earlier book has added two new chapters core level parallel processing and grid and cloud computing based on the emergence of parallel computers on a single silicon chip popularly known as multicore processors and the rapid developments in cloud computing all chapters have been revised and some chapters are re written to reflect the emergence of multicore processors and the use of mapreduce in processing vast amounts of data the new edition begins with an introduction to how to solve problems in parallel and describes how parallelism is used in improving the performance of computers the topics discussed include instruction level parallel processing architecture of parallel computers multicore processors grid and cloud computing parallel algorithms parallel programming compiler transformations operating systems for parallel computers and performance evaluation of parallel computers

COMPUTER ORGANIZATION AND ARCHITECTURE

2006-01-01

class tested and coherent this textbook teaches classical and web information retrieval including web search and the related areas of text classification and text clustering from basic concepts it gives an up to date treatment of all aspects of the design and implementation of systems for gathering indexing and searching documents methods for evaluating systems and an introduction to the use of machine learning methods on text collections all the important ideas are explained using examples and figures making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science based on feedback from extensive classroom experience the book has been carefully structured in order to make teaching more natural and effective slides and additional exercises with solutions for lecturers are also available through the book s supporting website to help course instructors prepare their lectures

DIGITAL LOGIC AND COMPUTER ORGANIZATION

2009-11-03

the third edition of fundamentals of information technology is a must have book not only for bca and mba students but also for all those who want to strengthen their knowledge of computers the additional chapter on ms office is a comprehensive study on ms word ms excel and other components of the package this book is packed with expert advice from eminent it professionals in depth analyses and practical examples it presents a detailed functioning of hardware components besides covering the software concepts a broad overview of computer architecture data representation in the computer operating systems database management systems programming languages etc has also been included an additional chapter on mobile computing and other state of the art innovations in the it world have been incorporated not only that the latest internet technologies have also been covered in detail one should use this book to acquire computer literacy in terms of how data is represented in a computer how hardware devices are integrated to get the desired results how the computer can be networked for interchanging data and establishing communication each chapter is followed by a number of review questions

ESSENTIALS OF E-COMMERCE TECHNOLOGY

2011

this book introduces computer programming to a beginner using fortran 90 and its recent extension fortran 95 while fortran 77 has been used for many years and is currently very popular computer scientists have been seriously concerned about good programming practice to promote development of reliable programs thus the international standards organization set up a group to modernise fortran and introduce new features which have made languages such as pascal and c popular the committee took over a decade to come up with the new standard fortran 90 fortran 90 has introduced many new features in fortran such as recursion pointers user defined data types etc which were hitherto available only in languages such as pascal and c fortran 90 is not an evolutionary change of fortran 77 but is drastically different though fortran 77 programs can be run using a fortran 90 compiler fortran 90 is so different that the author felt it was not a good idea to just revise fortran 77 and introduce fortran 90 in some places in the book thus this book is entirely new and introduces fortran 90 from basics in 1996 some small extensions were made to fortran 90 and has called fortran 95 this book also discusses these features as all new programs in fortran will henceforth be written in fortran 90 it is essential for students to learn this language the methodology of presentation however closely follows the one used by the author in his popular book on fortran 77

Introduction to Computer Science

2016-03-11

advances in computers and communications have revolutionised the way we live this has happened in a short span of sixty five years today we wonder how people lived

without access to mobile phones and the internet this book seeks to answer the following questions lucidly to a non specialist general reader how did this revolution happen what groundbreaking inventions led to this revolution why are they groundbreaking inventions who were the innovators and inventors of these technologies what led them to these inventions fifteen groundbreaking inventions fortran integrated circuits relational database management systems local area networks personal computers public key encryption computer graphics internet gps world wide search engines digitisation and compression of multimedia mobile computing cloud computing and deep learning ai are described cogently by professor v rajaraman a doyen of computer science education and research in india target audience students academicians professionals in the field of ict anyone who wants to know about ict

PARALLEL COMPUTERS ARCHITECTURE AND PROGRAMMING

1983

fundamentals of computers has been specifically designed for anybody and everybody who wants to be familiar with basic concepts of computers it is an ideal text for self learning basic computer concepts such as organization architecture input and output devices primary and secondary memory as well as advanced topics such as operating systems computer networks and databases the book also provides step by step tutorials to learn different ms office applications such as word powerpoint and excel the book can be useful for a broad spectrum of students varying from non computers background students enrolled in elementary courses on information technology and computer sciences to students enrolled in professional courses such as bca and mca

An Introduction to Digital Computer Design

2008-07-07

this is a revised and enlarged version of the author s book which received wide acclamations in its earlier three editions it provides a lucid and in depth introduction to the programming language fortran 77 which is widely used by scientists and engineers the fourth edition is completely revised chapterwise and also minor corrections incorporated a new standard for fortran called fortran 90 was introduced in early 90s and compilers for this version of fortran were sold in early 1995 by computer vendors all fortran 77 programs will run without change with fortran 90 compilers however some aspects of fortran 77 have been declared obsolete and will not run on future fortran compilers these are explained in this revised edition an appendix consolidates these features fortran 90 is introduced in a new chapter which summarises all its features

Introduction to Information Retrieval

2009

new to the second edition of this advanced text are several chapters on regression including neural networks and deep learning

Fundamentals of Information Technology

1997-01-01

the subject on computer concepts and programming in c or with the name fundamentals of computer and programming in c is one of the core courses in various undergraduate and postgraduate programmes of various institution and universities of india this book is designed to serve as textbook for those programmes of study while writing the book special emphasis is given to keep the language very simple and lucid level of presentation is kept simple and illustrative so that even an average reader can grasp the subject matter with quite ease

COMPUTER PROGRAMMING IN FORTRAN 90 AND 95

2020-08-01

aimed at providing undergraduate and postgraduate students with an understanding of this subject the book brings out the thermodynamic interrelationships by explaining its essential elements it begins with the fundamentals and progresses to advanced concepts to enable students to appreciate the application of thermodynamics in different areas of chemistry chemical thermodynamics is written in a simple and lucid language the discussion and explanations being interspersed with appropriate worked out examples every chapter is accompanied by adequate end of chapter exercises

GROUNDBREAKING INVENTIONS IN INFORMATION AND COMMUNICATION TECHNOLOGY

2019

covers mathematical and algorithmic foundations of data science machine learning high dimensional geometry and analysis of large networks

Fundamentals of Computers

1997-01-01

with the invention of computers and the advent of the internet mobile computing and e business applications information technology it has brought rapid progress in domestic and international business and a tremendous change in the lifestyle of people this book provides the students not just the knowledge about the fundamentals of a computer system like its organization memory management and hardware devices but also the software that run on it the book then proceeds to describe operating systems and the basics of programming concepts like procedure oriented programming and object oriented programming useful application software like ms word ms excel and ms powerpoint are described in great detail in separate chapters a complete section has been devoted to the teaching of data communication networking and internet the book ends with a detailed description of the business applications of computers key features incorporates basics of it along with developing skills for using various it tools includes diagrams pictures and screenshots provides key terms review questions practical exercises group discussions project activities and application based case studies in each chapter follows the latest curriculum and guidelines for undergraduate and postgraduate courses of various universities colleges and institutes

COMPUTER PROGRAMMING IN FORTRAN 77

2020-01-30

in the late 1800s india seemed to be left behind by the industrial revolution today there are many technological indians around the world but relatively few focus on india s problems ross bassett drawing on a database of every indian to graduate from the massachusetts institute of technology through 2000 explains the role of mit in this outcome

Data Mining and Machine Learning

2020-01-23

the book now in its second edition follows the structure of the first edition it introduces computer programming to a beginner using the programming language c the version of c used is the one standardised by the american national standards institute ansi c c has rapidly gained users due to its efficiency availability of rich data structures a large variety of operators and its affinity to the unix operating system c is a difficult language to learn if it is not methodically approached the attempt

has been to introduce the basic aspects of c to enable the student to quickly start writing c programs and postpone more difficult features of c to later chapters after reading the first eleven chapters a beginner can start writing complete programs to solve useful problems difficult concepts such as the use of pointers and recursion are explained lucidly with many examples the book is eminently suitable for undergraduate and postgraduate students of computer science engineering students as per the prescribed syllabus of several universities key features a self contained introduction to programming for beginners using the c language eminently suitable for self study even by high school students all important programming language features illustrated with over 100 example programs good style in programming explained and illustrated new to the second edition chapters with programs have a new section at the end giving style notes relevant to that chapter every chapter is reviewed and revised correcting minor errors appendix i is rewritten to enable students to execute programs on desktop or laptop computers using linux or windows environment target audience be b tech cse bca mca b sc m sc computer science

Computer Concepts and Programming in C

2015

r shankar has introduced major additions and updated key presentations in this second edition of principles of quantum mechanics new features of this innovative text include an entirely rewritten mathematical introduction a discussion of time reversal invariance and extensive coverage of a variety of path integrals and their applications additional highlights include clear accessible treatment of underlying mathematics a review of newtonian lagrangian and hamiltonian mechanics student understanding of quantum theory is enhanced by separate treatment of mathematical theorems and physical postulates unsurpassed coverage of path integrals and their relevance in contemporary physics the requisite text for advanced undergraduate and graduate level students principles of quantum mechanics second edition is fully referenced and is supported by many exercises and solutions the book s self contained chapters also make it suitable for independent study as well as for courses in applied disciplines

Chemical Thermodynamics: Classical, Statistical and Irreversible

2004-11

learn the hand crafted notes on c programming key features strengthens the foundations as a detailed explanation of programming language concepts are given lucid explanation of the concept well thought out fully working programming examples end of chapter exercises that would help you practice the skills learned in the chapter hand crafted kannotes at the end of the each chapter that would help the reader remember and revise the concepts covered in the chapter focuses on how to think logically to solve a problem description the new edition of this classic book has been thoroughly revamped but remains faithful to the principles that have established it as a favourite amongst students teachers and software professionals round the world simplicity that has been the hallmark of this book in not only its previous sixteen english editions but also in the hindi gujrati japanese korean chinese and us editions this book doesn t assume any programming background it begins with the basics and steadily builds the pace so that the reader finds it easy to handle advanced topics towards the end of the book what will you learn c instructions decision control instruction loop control instruction case control instruction functions pointers recursion data types the c preprocessor arrays strings structures console input output file input output who this book is for students programmers researchers and software developers who wish to learn the basics of c programming language table of contents 1 getting started 2 c instructions 3 decision control instruction 4 more complex decision making 5 loop control instruction 6 more complex repetitions 7 case control instruction 8 functions 9 pointers 10 recursion 11 data types revisited 12 the c preprocessor 13 arrays 14 multidimensional arrays 15 strings 16 handling multiple strings 17 structures 18 console input output 19 file input output 20 more issues in input output 21 operations on bits 22 miscellaneous features 23 interview faqs appendix a compilation and execution appendix b precedence table appendix c chasing the bugs appendix d ascii chart periodic tests i to iv course tests i ii index about the authors through his books and quest video courses on c c java python data structures net iot etc yashavant kanetkar has created molded and groomed lacs of it careers in the last three decades yashavant s books and quest videos have made a significant contribution in creating top notch it manpower in india and abroad yashavant s books are globally recognized and millions of students professionals have benefitted from them yashavant s books have been translated into hindi gujarati japanese korean and chinese languages many of his books are published in india usa japan singapore korea and china yashavant is a much sought after speaker in the it field and has conducted seminars workshops at tedex iits iiits nits and global software companies yashavant has been honored with the prestigious distinguished alumnus award by iit kanpur for his

entrepreneurial professional and academic excellence this award was given to top 50 alumni of iit kanpur who have made a significant contribution towards their profession and betterment of society in the last 50 years his linkedin profile linkedin com in yashavant kanetkar 9775255

Foundations of Data Science

2016-02-15

converting old landfills to energy producing sites while capturing emitted greenhouse gases has faced numerous technical financial and social challenges and developments lately also the re mining of landfills to recover useful land in dense urban areas and proper landfill closure has been a subject of discussion and investigation designed as an overview text for landfill management from cradle to grave this volume s content stretches from the fundamentals to the rather indepth details by putting down their joint international experience the authors have intended to both guide and inspire the user for his or her landfill project introducing the fundamental concepts of landfill gas management and its needs and importance in the present world energy scenario this accessible reference volume presents key landfill gas management techniques at regional national and global levels in detail it gives an account of the recent technologies available for landfill gas treatment and its utilization it summarizes landfill gas prediction models developed in various parts of the world and details their adequacy in various field conditions covering both landfill remediation aspects and economic considerations while selecting a landfill gas to energy utilization project the reader gets familiar with the practical aspects of converting a landfill site also the challenges faced by municipalities and landfill operators in recovering landfill gas as an energy source are described and solutions are suggested for solving them effectively these include practical execution problems governmental issues and developing policies to encourage investment the volume also includes various case studies of landfill gas to energy utilization projects from around the world which can be reviewed and customized for the reader s own application with the help of extensive reference section intended as an overview text for advanced students and researchers in the relevant engineering and technology fields environmental civil geotechnical chemical mechanical and electrical this book will also be particularly helpful to practitioners such as municipal managers landfill operators designers solid waste management engineers urban planners professional consultants scientists non governmental organizations and entrepreneurs

Computer Fundamentals and Applications

2003-10

this self readable and student friendly text provides a strong programming foundation to solve problems with c language through its well supported structured programming methodology rich set of operators and data types it is designed to help students build efficient and compact programs the book now in its second edition is an extended version of dr m t somashekara s previous book titled as programming in c in addition to two newly introduced chapters on graphics using c and searching and sorting all other chapters of the previous edition have been thoroughly revised and updated the usage of pseudocodes as a problem solving tool has been explored throughout the book before providing c programming solutions for the problems wherever necessary this book comes with an increased number of examples programs review questions programming exercises and interview questions in each chapter appendices glossary mcqs with answers and solutions to interview questions are given at the end of the book the book is eminently suitable for students of computer science computer applications and information technology at both undergraduate and postgraduate levels assuming no previous knowledge of programming techniques this book is appropriate for all those students who wish to master the c language as a problem solving tool for application in their respective disciplines it even caters to the needs of beginners in computer programming key features introduction to problem solving tools like algorithms flow charts and pseudocodes systematic approach to teaching c with simple explanation of each concept expanded coverage of arrays structures pointers and files complete explanation of working of each program with emphasis on the core segment of the program supported by a large number of solved programs and programming exercises in each chapter new to the second edition points wise summary at the end of each chapter mcqs with answers interview questions with solutions pseudocodes for all the problems solved using programs two new chapters on graphics using c and searching and sorting additional review questions and programming exercises

Computer Fundamentals

1989

solar cells are semiconductor devices that convert light photons into electricity in photovoltaic energy conversion and can help to overcome the global energy crisis solar cells have many applications including remote area power systems earth orbiting satellites wristwatches water pumping photodetectors and remote radiotelephones solar cell technology is economically feasible for commercial scale power generation while commercial solar cells exhibit good performance and stability still researchers are looking at many ways to improve the performance and cost of solar cells via modulating the fundamental properties of semiconductors solar cell technology is the key to a clean energy future solar cells directly harvest energy from the sun s light radiation into electricity are in an ever growing demand for future global energy production solar cell based energy harvesting has attracted worldwide attention for their notable features such as cheap renewable technology scalable lightweight flexibility versatility no greenhouse gas emission environment and economy friendly and operational costs are quite low compared to other forms of power generation thus solar cell technology is at the forefront of renewable energy technologies which are used in telecommunications power plants small devices to satellites aiming at large scale implementation can be manipulated by various types used in solar cell design and exploration of new materials towards improving performance and reducing cost therefore in depth knowledge about solar cell design is fundamental for those who wish to apply this knowledge and understanding in industries and academics this book provides a comprehensive overview on solar cells and explores the history to evolution and present scenarios of solar cell design classification properties various semiconductor materials thin films wafer scale transparent solar cells and so on it also includes solar cells characterization analytical tools theoretical modeling practices to enhance conversion efficiencies applications and patents

The Technological Indian

2012-12-06

Fundamentals of Computers

2020-09-04

COMPUTER PROGRAMMING IN C, SECOND EDITION

2011-12-15

Fundamentals of Computers

2018-01-01

Principles of Quantum Mechanics

2021-08-24

Let Us C: Authentic Guide to C PROGRAMMING Language 17th Edition (English Edition)

1980

From Landfill Gas to Energy

PROBLEM SOLVING WITH C

Fundamentals of Solar Cell Design

Computer Oriented Numerical Methods