

N P Gopalan Web Technology

Heat exchangers with minichannel and microchannel flow passages are becoming increasingly popular due to their ability to remove large heat fluxes under single-phase and two-phase applications. Heat Transfer and Fluid Flow in Minichannels and Microchannels methodically covers gas, liquid, and electrokinetic flows, as well as flow boiling and condensation, in minichannel and microchannel applications. Examining biomedical applications as well, the book is an ideal reference for anyone involved in the design processes of microchannel flow passages in a heat exchanger. Each chapter is accompanied by a real-life case study New edition of the first book that solely deals with heat and fluid flow in minichannels and microchannels Presents findings that are directly useful to designers; researchers can use the information in developing new models or identifying research needs

This two-volume book presents outcomes of the 7th International Conference on Soft Computing for Problem Solving, SocProS 2017. This conference is a joint technical collaboration between the Soft Computing Research Society, Liverpool Hope University (UK), the Indian Institute of Technology Roorkee, the South Asian University New Delhi and the National Institute of Technology Silchar, and brings together researchers, engineers and practitioners to discuss thought-provoking developments and challenges in order to select potential future directions The book presents the latest advances and innovations in the interdisciplinary areas of soft computing, including original research papers in the areas including, but not limited to, algorithms (artificial immune systems, artificial neural networks, genetic algorithms, genetic programming, and particle swarm optimization) and applications (control systems, data mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). It is a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems for which finding a solution by traditional methods is a difficult task.

This book constitutes the proceedings of the International Conference on Information and Communication Technologies held in Kochi, Kerala, India in September 2010.

2D Monoelements: Properties and Applications explores the challenges, research progress and future developments of the basic idea of two-dimensional monoelements, classifications, and application in field-effect transistors for sensing and biosensing. The thematic topics include investigations such as: Recent advances in phosphorene The diverse properties of two-dimensional antimonene, of graphene and its derivatives The molecular docking simulation study used to analyze the binding mechanisms of graphene oxide as a cancer drug carrier Metal-organic frameworks (MOFs)-derived carbon (graphene and carbon nanotubes) and MOF-carbon composite materials, with a special emphasis on the use of these

nanostructures for energy storage devices (supercapacitors) Two-dimensional monoelements classification like graphene application in field-effect transistors for sensing and biosensing Graphene-based ternary materials as a supercapacitor electrode Rise of silicene and its applications in gas sensing

Genetically engineered (GE) crops were first introduced commercially in the 1990s. After two decades of production, some groups and individuals remain critical of the technology based on their concerns about possible adverse effects on human health, the environment, and ethical considerations. At the same time, others are concerned that the technology is not reaching its potential to improve human health and the environment because of stringent regulations and reduced public funding to develop products offering more benefits to society. While the debate about these and other questions related to the genetic engineering techniques of the first 20 years goes on, emerging genetic-engineering technologies are adding new complexities to the conversation. Genetically Engineered Crops builds on previous related Academies reports published between 1987 and 2010 by undertaking a retrospective examination of the purported positive and adverse effects of GE crops and to anticipate what emerging genetic-engineering technologies hold for the future. This report indicates where there are uncertainties about the economic, agronomic, health, safety, or other impacts of GE crops and food, and makes recommendations to fill gaps in safety assessments, increase regulatory clarity, and improve innovations in and access to GE technology.

This book constitutes revised selected papers from the International Conference on Advanced Computing, Networking and Security, ADCONS 2011, held in Surathkal, India, in December 2011. The 73 papers included in this book were carefully reviewed and selected from 289 submissions. The papers are organized in topical sections on distributed computing, image processing, pattern recognition, applied algorithms, wireless networking, sensor networks, network infrastructure, cryptography, Web security, and application security.

Contributed conference papers.

This textbook covers all the nitty gritty of the 8051 microcontroller in a very student friendly way. The concept explanation is backed up by a lot of supportive diagrams and projects which makes the topic interesting and applicable to the real life scenario. Latest software development is also given so that the students can develop and practice the programming and interfacing the microcontrollers in the latest environment. Salient Features: • Latest software development environment Keil Vision 4.1 given with screenshots. • Latest advancements to the field like I2C, SPI etc. • Pedagogy: o Illustrations: 341 o Examples: 312 o Discussion questions within the topics: 25 o Review questions with answers: 290 o Problems: 409 o Objective questions: 301 o Think boxes: 85

Web Technologies is specially designed as a textbook for undergraduate students of Computer Science & Engineering and

Information Technology and postgraduate students of Computer Applications. The book seeks to provide a thorough understanding of fundamentals of Web Technologies. Divided into four sections, the book first introduces basic concepts such as Introduction to Web, HTTP, Java Network Programming, HTML, and Cascading Style Sheets (CSS). The following three sections describe various applications of web technologies, namely, XML, client-side scripting, and server-side scripting. The second section on XML Technologies focuses on concepts such as XML Namespace, DTD, and Schema, parsing in XML, concept of XPath, XML Transformation and other XML technologies. The third section dealing with client-side programming includes JavaScript and Applets and the last section introduces server-side programming including CGI, Servlets, JSP, and Introduction to J2EE. Presenting the concepts in comprehensive and lucid manner, the book includes numerous real-world examples and codes for better understanding of the subject. Moreover, the text is supported with illustrations, screenshots, review questions, and exercises._

This book features high-quality research papers presented at Second Doctoral Symposium on Computational Intelligence (DoSCI-2021), organized by Institute of Engineering and Technology (IET), AKTU, Lucknow, India, on 6 March 2021. This book discusses the topics such as computational intelligence, artificial intelligence, deep learning, evolutionary algorithms, swarm intelligence, fuzzy sets and vague sets, rough set theoretic approaches, quantum-inspired computational intelligence, hybrid computational intelligence, machine learning, computer vision, soft computing, distributed computing, parallel and grid computing, cloud computing, high-performance computing, biomedical computing, decision support and decision making.

This book constitutes the refereed proceedings of the 7th International Workshop on Advanced Parallel Processing Technologies, APPT 2007, held in Guangzhou, China, in November 2007. The 78 revised full papers presented were carefully reviewed and selected from 346 submissions. All current aspects in parallel and distributed computing are addressed ranging from hardware and software issues to algorithmic aspects and advanced applications. The papers are organized in topical sections.

Covering the basic techniques used in the latest research work, the author consolidates progress made so far, including some very recent and promising results, and conveys the beauty and excitement of work in the field. He gives clear, lucid explanations of key results and ideas, with intuitive proofs, and provides critical examples and numerous illustrations to help elucidate the algorithms. Many of the results presented have been simplified and new insights provided. Of interest to theoretical computer scientists, operations researchers, and discrete mathematicians.

The IFIP series publishes state-of-the-art results in the sciences and technologies of information and communication Proceedings and post-proceedings of referred international conferences in computer science and interdisciplinary fields are featured. These results often precede journal publication and represent the most current research. The principal aim of the IFIP series is to encourage education and the dissemination and exchange of information about all aspects of computing.

Frustrated with networking books so chock-full of acronyms that your brain goes into sleep mode? Head First Networking's unique, visually rich format provides a task-based approach to computer networking that makes it easy to get your brain engaged. You'll

learn the concepts by tying them to on-the-job tasks, blending practice and theory in a way that only Head First can. With this book, you'll learn skills through a variety of genuine scenarios, from fixing a malfunctioning office network to planning a network for a high-technology haunted house. You'll learn exactly what you need to know, rather than a laundry list of acronyms and diagrams. This book will help you: Master the functionality, protocols, and packets that make up real-world networking Learn networking concepts through examples in the field Tackle tasks such as planning and diagramming networks, running cables, and configuring network devices such as routers and switches Monitor networks for performance and problems, and learn troubleshooting techniques Practice what you've learned with nearly one hundred exercises, questions, sample problems, and projects Head First's popular format is proven to stimulate learning and retention by engaging you with images, puzzles, stories, and more. Whether you're a network professional with a CCNA/CCNP or a student taking your first college networking course, Head First Networking will help you become a network guru.

This comprehensive and accessible text discusses all the aspects of Core Java in a simple and easy to understand language. It begins with a discussion on the fundamentals of Java and then goes on to give a description of the various operators provided by Java, different ways of making decisions through branching, and the core concepts of Java, that is, classes, objects and their features. Besides, the text also explains the intricacies of one of the most important features of object-orientation, i.e. inheritance, packages and wrapper classes, arrays, strings, string-buffers, and multi-threaded programming and its intricacies. Finally, it elaborates on the classes and interfaces of lang, util and io packages. The book is intended for the undergraduate students of Engineering [B.Tech. (Computer Science)/B.Tech. (IT)], as well as for undergraduate and postgraduate students of Computer Applications (BCA/MCA), and Computer Science and Information Technology—B.Sc./M.Sc. (Computer Science/IT). Besides, professionals in the field will find the book quite useful. KEY FEATURES : Illustrates the topics discussed with the help of sample programs. Provides a large number of questions at the end of each chapter to test the reader's understanding of the concepts. Gives a comprehensive Glossary of the terms used in the text. Companion Website: http://www.phindia.com/mahesh_matha/

This book presents the proceedings of International Conference on Knowledge Society: Technology, Sustainability and Educational Innovation (TSIE 2019). The conference, which was held at UTN in Ibarra, Ecuador, on 3–5 July 2019, allowed participants and speakers to share their research and findings on emerging and innovative global issues. The conference was organized in collaboration with a number of research groups: Group for the Scientific Research Network (e-CIER); Research Group in Educational Innovation and Technology, University of Salamanca, Spain(GITE-USAL); International Research Group for Heritage and Sustainability (GIIPS), and the Social Science Research Group (GICS). In addition, it had the endorsement of the RedCLARA, e-science, Fidal Foundation, Red CEDIA, IEEE, Microsoft, Business IT, Adobe, and Argo Systems. The term “knowledge society” can be understood as the management, understanding and co-creation of knowledge oriented toward the sustainable development and positive transformation of society. In this context and on the occasion of the XXXIII anniversary of the Universidad Técnica del Norte (UTN), the Postgraduate Institute through its Master of Technology and Educational Innovation held the I International Congress on Knowledge Society: Technology, Sustainability and Educational Innovation – TSIE 2019, which brought together educators, researchers, academics, students, managers, and professionals, from both the public and private sectors to share knowledge and technological developments. The book covers the following topics: 1. curriculum, technology and educational

innovation; 2. media and education; 3. applied computing; 4. educational robotics. 5. technology, culture, heritage, and tourism development perspectives; and 6. biodiversity and sustainability.

Collaborations of physicians and researchers with industry can provide valuable benefits to society, particularly in the translation of basic scientific discoveries to new therapies and products. Recent reports and news stories have, however, documented disturbing examples of relationships and practices that put at risk the integrity of medical research, the objectivity of professional education, the quality of patient care, the soundness of clinical practice guidelines, and the public's trust in medicine. Conflict of Interest in Medical Research, Education, and Practice provides a comprehensive look at conflict of interest in medicine. It offers principles to inform the design of policies to identify, limit, and manage conflicts of interest without damaging constructive collaboration with industry. It calls for both short-term actions and long-term commitments by institutions and individuals, including leaders of academic medical centers, professional societies, patient advocacy groups, government agencies, and drug, device, and pharmaceutical companies. Failure of the medical community to take convincing action on conflicts of interest invites additional legislative or regulatory measures that may be overly broad or unduly burdensome. Conflict of Interest in Medical Research, Education, and Practice makes several recommendations for strengthening conflict of interest policies and curbing relationships that create risks with little benefit. The book will serve as an invaluable resource for individuals and organizations committed to high ethical standards in all realms of medicine.

WEB TECHNOLOGY A DEVELOPER'S PERSPECTIVE PHI Learning Pvt. Ltd.

This book is a complete guide to the C4.5 system as implemented in C for the UNIX environment. It contains a comprehensive guide to the system's use, the source code (about 8,800 lines), and implementation notes.

A process or set of rules to be followed in calculations or other problem-solving operations, especially by a computer. Key features This book is especially designed for beginners and explains all aspects of algorithm and its analysis in a simple and systematic manner. Algorithms and their working are explained in detail with the help of several illustrative examples. Important features like greedy algorithm, dynamic algorithm, string matching algorithm, branch and bound algorithm, NP hard and NP complete problems are suitably highlighted. Solved and frequently asked questions in the various competitive examinations, sample papers of the past examinations are provided which will serve as a useful reference source. Description The book has been written in such a way that the concepts and working of algorithms are explained in detail, with adequate examples. To make clarity on the topic, diagrams, calculation of complexity, algorithms are given extensively throughout. Many examples are provided which are helpful in understanding the algorithms by various strategies. This content is user-focused and has been highly updated including algorithms and their real-world examples. What will you learn Algorithm & Algorithmic Strategy, Complexity of Algorithms Divide-and-Conquer, Greedy, Backtracking, String-Matching Algorithm Dynamic Programming, P and NP Problems Graph Theory, Complexity of Algorithms Who this book is for The book would serve as an extremely useful text for BCA, MCA, M. Sc. (Computer Science), PGDCA, BE (Information Technology) and B. Tech. and M. Tech. students. Table of contents 1. Algorithm & Algorithmic Strategy 2. Complexity of Algorithms 3. Divide-and-Conquer Algorithms 4. Greedy Algorithm 5. Dynamic Programming 6. Graph Theory 7. Backtracking Algorithms 8. Complexity of Algorithms 9. String-Matching Algorithms 10. P and NP Problems About the author Shefali Singhal is working as an Assistant professor in Computer science and Engineering department, Manav Rachna International University. She has completed her M.Tech. from YMCA University in Computer Engineering. Her research interest includes Programming Languages, Computer Network, Data mining, and Theory of computation. Neha Garg is working as an Assistant professor in in Computer science and Engineering department,

Manav Rachna International University. She has completed her MTech. Form Banasthali University, Rajasthan in Information Technology. Her research interest includes Programming Languages, Data Structure, Operating System, Database Management Systems. This Book Deals With All The Technologies Used In The Design Of Services Over The Web. It Begins With The Principles And Concepts Used In Internet And Worldwide Web. Html Is Explained In Two Chapters. Since Frames And Forms Are Vital Components In Interactive Web Pages, A Separate Chapter Is Dedicated With Several Examples. Javascript, The Popular Scripting Language Used In Client Side Data Validation Is Then Explained With Adequate Object Oriented Style. The Server Side Code Is Explained With Jsp.The Whole Of Jsp Is Explained And Illustrated Using Several Examples. Jsp Is Used With Jdbc For Accessing Databases. Java Database Connectivity Is Given Due Importance And Simple Web Applications Have Been Developed. Java Servlet Is Fully Explained With Several Examples. Four Minor Projects On Design And Application Are Given In The Last Four Chapters. These Projects Are Fully Explained According To The Software Development Life Cycle. The Complete Set Of Design Documents, Code And Testing Strategies Are Explained. This Book Will Serve As A Complete Textbook For Various Graduate And Postgraduate Courses.

Intended as a textbook for undergraduate students of computer science, computer science and engineering, and information technology for a course on distributed systems/operating systems, this up-to-date text provides a thorough understanding of the fundamental principles and technologies pertinent to the design and construction of the distributed systems. Beginning with an introduction to the subject, the book discusses the techniques of software and network architectures and presents the issues pertaining to the handling and accessing of resources. This also focuses on major application areas. Finally, the book provides the examples for explaining the concepts discussed. The book would also be useful to postgraduate students of computer science, computer science and engineering, and information technology as well as to postgraduate students of computer applications. The book can also be used by software engineers, programmers, analysts, scientists and researchers for reference. New to This Edition This second edition highlights some of the latest distributed system technologies. It includes discussions on: • Cloud Computing • Social Networks • Big Data In addition to this, It presents some current key software tools, viz. BitTorrent, Amazon Dynamo, Amazon DynamoDB, Apache Cassandra, Apache Server, Apache Zookeeper, Google BigTable and others. Key Features • Introduces Internet, The World Wide Web, Web services and network technologies, viz. WAN, LAN and MAN. • Discusses software development tools, like PVM, MPI, DCE, CORBA and the Globus toolkit. • Provides discussions on network protocol suites, i.e. TCP/IP, SMTP and HTTP. • Deals with grid computing, wireless computing and client-server model. • Presents applications of NFS, Coda, Microsoft SQL Server, Oracle, Amoeba, Chorus, Mach, Windows NT and Orbix technologies. • Emphasizes the programming languages, like Ada, C++ and Java.

There is arguably no field in greater need of a comprehensive handbook than computer engineering. The unparalleled rate of technological advancement, the explosion of computer applications, and the now-in-progress migration to a wireless world have made it difficult for engineers to keep up with all the developments in specialties outside their own

This well-received book, now in its second edition, incorporates a new chapter on PHP as Chapter 13 based on the readers' demand in today's world PHP which is an important web programming technology. This text provides students with a comprehensible introduction to the programming and scripting languages currently used to create Web sites and Web applications—the main aim being to teach the programming concepts of various Web technologies and the fundamentals needed to program on the Internet. The book emphasises the underlying fundamentals of Web page development and prepares students to build real-world, industrial strength Web-based applications, and use a

wide variety of Web development tools effectively and efficiently. Students are introduced to the concepts of Internet Protocols, Java networking, JavaScript, VBScript and PHP. The material presented on Java network programming contains an elaborate description with examples to help the reader clearly understand the networking concepts. The book is intended as a text for students of Computer Science and Engineering, Information Technology, and Master of Computer Applications. Key Features • Presents well-designed material on HTML, DHTML, XML and PHP with many practical exercises. • Explains the development of servlets with simple examples. • Explores the programming features of JSPs. • Introduces the elements of ASPs with worked-out exercises. • Includes Review Questions and Objective Type Questions at the end of each chapter.

The TCP/IP technology has evolved over the years and undergone substantial improvements to meet the demands of modern high-speed network technologies. These demands involve the handling of increased traffic, providing better and efficient services, and implementing foolproof security measures for authentic and safe communication. Offering clear explanations of underlying issues, this book provides an accessible introduction the basic principles of the Internet and its accompanying TCP/IP protocol suit. It discusses a wide range of topics, including: • Principles and applications of TCP/IP and other relevant protocols • Coordination of multiple interconnected physical networks and protocols • Routing and its specific components—Internet addressing, protocol layering and implementation • Client-server model of communication • Internet security—issues and concepts This textbook is designed for students of BE/BTech pursuing courses in Computer Science and Engineering, Information Technology, as well as for students of computer applications (BCA and MCA). It can also be a valuable reference for ME/MTech students of Computer Science and Engineering and Information Technology, specializing in computer networks and network programming.

Irrespective of whether we use economic or societal metrics, the Internet is one of the most important technical infrastructures in existence today. It will serve as a catalyst for much of our innovation and prosperity in the future. A competitive Europe will require Internet connectivity and services beyond the capabilities offered by current technologies. Future Internet research is therefore a must. The Future Internet Assembly (FIA) is a successful and unique bi-annual conference that brings together participants of over 150 projects from several distinct but interrelated areas in the EU Framework Programme 7. The 20 full papers included in this volume were selected from 40 submissions, and are preceded by a vision paper describing the FIA Roadmap. The papers have been organized into topical sections on the foundations of Future Internet, the applications of Future Internet, Smart Cities, and Future Internet infrastructures.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Web Technologies: A Computer Science Perspective is ideal for courses in Web-based Systems (aka Web/Internet Programming/Systems) in Computer Science, MIS, and IT departments. This text introduces the key technologies that have been developed as part of the birth and maturation of the World Wide Web. It provides a consistent, in-depth treatment of technologies that are unlikely to receive detailed coverage in non-Web computer science courses. Students will find an ongoing case study that integrates a wide spectrum of Web technologies, guidance on setting up their own software environments, and a variety of exercises and project assignments.

This book is designed to introduce object-oriented programming (OOP) in C++ and Java, and is divided into four areas of coverage:

Preliminaries: Explains the basic features of C, C++, and Java such as data types, operators, control structures, storage classes, and array structures. Part I : Covers classes, objects, data abstraction, function overloading, information hiding, memory management, inheritance, binding, polymorphism, class template using working illustrations based on simple concepts. Part II : Discusses all the paradigms of Java

programming with ready-to-use programs. Part III : Contains eight Java packages with their full structures. The book offers straightforward explanations of the concepts of OOP and discusses the use of C++ and Java in OOP through small but effective illustrations. It is ideally suited for undergraduate/postgraduate courses in computer science. The IT professionals should also find the book useful.

This book presents high-quality papers from the Third International Conference on Smart Computing and Informatics (SCI 2018?19), organized by the School of Computer Engineering and School of Computer Application, Kalinga Institute of Industrial Technology Deemed to be University, Bhubaneswar, from 21 to 22 December 2018. It includes advanced and multi-disciplinary research on the design of smart computing and informatics, focusing on innovation paradigms in system knowledge, intelligence and sustainability that have the potential to provide realistic solutions to various problems in society, the environment and industry. The papers featured provide a valuable contribution to the deployment of emerging computational and knowledge transfer approaches, optimizing solutions in varied disciplines of science, technology and health care.

Data Analysis Using Statistics and Probability with R Language is a complete introduction to data analysis. It provides a sound understanding of the foundations of the data analysis, in addition to covering many important advanced topics. Moreover, all the techniques have been implemented using R language as well as Excel. This book is intended for the undergraduate and postgraduate students of Management and Engineering disciplines. It is also useful for research scholars. **KEY FEATURES** 1. Covers data analysis topics such as: • Descriptive statistics like mean, median, mode, standard deviation, skewness, kurtosis, correlation and regression • Probability and probability distribution • Inferential statistics like estimation of parameters, hypothesis testing, ANOVA test, chi-square and t-test • Statistical quality control, time series analysis, statistical decision theory • Explorative data analysis like clustering and classification • Advanced techniques like conjoint analysis, panel data analysis, and logistic regression analysis 2. Comprises 12 chapters which include examples, solved problems, review questions and unsolved problems. 3. Requires no programming background and can be used to understand theoretical concepts also by skipping programming. 4. R and Excel implementations, and additional advanced topics are available at https://phindia.com/partha_sarathi_bishnu_and_vandana_bhattacharjee 5. Whenever in any branch, data analysis technique is required, this book is the best. **TARGET AUDIENCE** • Students of MBA, ME/M.Tech, and BE/B.Tech. • M.Sc. (Computer Science), MCA, BCA, and research scholars

Fundamentals of Web Development covers the broad range of topics required for modern web development (both client- and server-side) and is appropriate for students who have taken a CS1 course sequence. The book guides students through the creation of enterprise-quality websites using current development frameworks, its comprehensive coverage of a modern internet development platform; includes HTML5, CSS3, Javascript, and the LAMP stack (that is, Linux, Apache, MySQL, and PHP). Other important technologies covered include jQuery, XML, WordPress, Bootstrap, and a variety of third-party APIs that include Facebook, Twitter, and Google and Bing Maps. Coverage also includes the required ACM web development topics in a modern manner closely aligned with best practices in the real world; of web development. ; Teaching and Learning Experience Help

students master the fundamentals of web development: A true grasp of web development requires an understanding of both the foundations of the web and current web development practices. Support learning outcomes in various teaching scenarios: This book allows instructors to chart their own unique way through the topics that make up contemporary web development.

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