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This book presents contributions from renowned experts addressing research and development related to the two important areas of heat exchangers, which are advanced features and applications. This book is intended to be a useful source of information for researchers, postgraduate students, academics, and engineers working in the field of heat exchangers research and development.

"This book focuses on two kinds of advanced biometric recognition technologies, biometric data

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discrimination and multi-biometrics"--Provided by publisher.

Artificial neural networks represent a broad and rapidly developing technology featuring new systems and novel ways of applying established systems. This monograph illustrates advanced methods and recent developments in applying artificial neural network concepts in civil engineering.

This book constitutes the proceedings of the 15th International Conference on Advanced Data Mining and Applications, ADMA 2019, held in Dalian, China in November 2019. The 39 full papers presented together with 26 short papers and 2 demo papers were carefully reviewed and selected from 170

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submissions. The papers were organized in topical sections named: Data Mining Foundations; Classification and Clustering Methods; Recommender Systems; Social Network and Social Media; Behavior Modeling and User Profiling; Text and Multimedia Mining; Spatial-Temporal Data; Medical and Healthcare Data/Decision Analytics; and Other Applications.

This book is an excellent companion to Chemical Thermodynamics: Principles and Applications. Together they make a complete reference set for the practicing scientist. This volume extends the range of topics and applications to ones that are not usually covered in a beginning thermodynamics text. In a

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sense, the book covers a "middle ground" between the basic principles developed in a beginning thermodynamics textbook, and the very specialized applications that are a part of an ongoing research project. As such, it could prove invaluable to the practicing scientist who needs to apply thermodynamic relationships to aid in the understanding of the chemical process under consideration. The writing style in this volume remains informal, but more technical than in Principles and Applications. It starts with Chapter 11, which summarizes the thermodynamic relationships developed in this earlier volume. For those who want or need more detail, references are given to the

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sections in Principles and Applications where one could go to learn more about the development, limitations, and conditions where these equations apply. This is the only place where Advanced Applications ties back to the previous volume. Chapter 11 can serve as a review of the fundamental thermodynamic equations that are necessary for the more sophisticated applications described in the remainder of this book. This may be all that is necessary for the practicing scientist who has been away from the field for some time and needs some review. The remainder of this book applies thermodynamics to the description of a variety of problems. The topics covered are those that are

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probably of the most fundamental and broadest interest. Throughout the book, examples of "real" systems are used as much as possible. This is in contrast to many books where "generic" examples are used almost exclusively. A complete set of references to all sources of data and to supplementary reading sources is included. Problems are given at the end of each chapter. This makes the book ideally suited for use as a textbook in an advanced topics course in chemical thermodynamics. An excellent review of thermodynamic principles and mathematical relationships along with references to the relevant sections in Principles and Applications where these equations are developed Applications of

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thermodynamics in a wide variety of chemical processes, including phase equilibria, chemical equilibrium, properties of mixtures, and surface chemistry Case-study approach to demonstrate the application of thermodynamics to biochemical, geochemical, and industrial processes Applications at the "cutting edge" of thermodynamics Examples and problems to assist in learning Includes a complete set of references to all literature sources

This book explores various aspects of software creation and development as well as data and information processing. It covers relevant topics such as business analysis, business rules, requirements engineering, software development processes,

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software defect prediction, information management systems, and knowledge management solutions. Lastly, the book presents lessons learned in information and data management processes and procedures.

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Sponsored by the Committee on Expert Systems and

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Artificial Intelligence of the Technical Council on Computer Practices of ASCE. This report illustrates advanced methods and new developments in the application of artificial neural networks to solve problems in civil engineering. Topics include: Evaluating new construction technologies; Using multi-layered artificial neural network architecture to overcome problems with conventional traffic signal control systems; Increasing the computational efficiency of an optimization model; Predicting carbonation depth in concrete structures; Detecting defects in concrete piles; Analyzing pavement systems; Using neural network hybrids to select the most appropriate bidders for a

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construction project; and Øpredicting the Energy Performance Index of residential buildings. ØMany of the ideas and techniques discussed in this book cross across disciplinary boundaries and, therefore, should be of interest to all civil engineers.

"This book includes state-of-the-art methodologies that introduce biomedical imaging in decision support systems and their applications in clinical practice"--Provided by publisher.

This book constitutes the thoroughly refereed proceedings of the 10th International Workshop on Principles, Systems and Applications of IP Telecommunications, held in Heidelberg,

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Germany, in July 2008. The 16 full papers presented were carefully reviewed and selected from a total of 56 submissions. Topics covered include recent advances in the domains of convergent networks, VoIP security, and multimedia service environments for next generation networks.

The 4 volume set LNCS 12112-12114 constitutes the papers of the 25th International Conference on Database Systems for Advanced Applications which will be held online in September 2020. The 119 full papers presented together with 19 short papers plus 15 demo papers and 4 industrial papers in this volume were carefully reviewed and selected

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from a total of 487 submissions. The conference program presents the state-of-the-art R&D activities in database systems and their applications. It provides a forum for technical presentations and discussions among database researchers, developers and users from academia, business and industry.

Become a more productive programmer by leveraging the newest features available to you in C#. This book highlights the new language features available to you and how to use these and other tools such as Bootstrap, SCSS, and jQuery to enhance your web applications. Exploring Advanced Features in C# starts with some of the new features of C# 7

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such as how to implement local functions, tuples and generalized async return types. The book also looks at C# 8, where the author demonstrates how to implement nullable reference types, recursive patterns, ranges, indices, switch expressions, and many more. Next, you go through some of the distinct features of C# that might often be overlooked such as generics, asynchronous programming, and dynamic types. The author demonstrates how to implement these features through clear and concise examples. Next, you'll discuss creating responsive web applications using ASP.NET Model View Controller (MVC) where you'll learn how to combine Bootstrap with jQuery and SCSS to create

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interactive web applications with a great-looking, user-friendly UI. Moving forward, you will create and run applications on the latest .NET Core version 3.0 as well as explore some of the features of .NET Core 3.0. Finally, you will go through the tips and tricks of Visual Studio 2019 that make you more productive. After reading the book, you will be able to implement new features available in C# and learn how to enhance your application development using ASP.NET MVC and .NET Core. What You Will Learn Implement the new features available in C# 7 Enhance your web applications using ASP.NET MVC, Bootstrap, SCSS, and jQuery See what C# 8 has to offer with clear code

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*examples Create and run applications in .NET Core 3.0
Who This Is Book For C# programmers who have worked
with C# for a number of years and who want to keep up to
date with the latest advancements of the language .*

*This guide considers the work of research alongside life's
many other responsibilities, showing how to juggle it with
work, family, and friends. Based on interviews with
professionals in health, education, social care, criminal
justice, and other fields, it provides a wealth of practical
information to help save time, effort, and stress.*

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[Second International Conference, IPTComm 2008, Heidelberg, Germany, July 1-2, 2008. Revised Selected Papers](#)

Field Programmable Gate Arrays (FPGAs) are currently recognized as the most suitable platform for the implementation of complex digital systems targeting an increasing number of industrial electronics applications. They cover a huge variety of application areas, such as: aerospace, food industry, art, industrial automation, automotive, biomedicine, process control, military, logistics, power electronics,

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chemistry, sensor networks, robotics, ultrasound, security, and artificial vision. This book first presents the basic architectures of the devices to familiarize the reader with the fundamentals of FPGAs before identifying and discussing new resources that extend the ability of the devices to solve problems in new application domains. Design methodologies are discussed and application examples are included for some of these domains, e.g., mechatronics, robotics, and power systems.

This book builds on basic Python tutorials to explain various Python language features that

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aren't routinely covered: from reusable console scripts that play double duty as micro-services by leveraging entry points, to using asyncio efficiently to collate data from a large number of sources. Along the way, it covers type-hint based linting, low-overhead testing and other automated quality checking to demonstrate a robust real-world development process. Some powerful aspects of Python are often documented with contrived examples that explain the feature as a standalone example only. By following the design and build of a real-world application example from prototype to production quality

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you'll see not only how the various pieces of functionality work but how they integrate as part of the larger system design process. In addition, you'll benefit from the kind of useful asides and library recommendations that are a staple of conference Q&A sessions at Python conferences as well as discussions of modern Python best practice and techniques to better produce clear code that is easily maintainable. Advanced Python Development is intended for developers who can already write simple programs in Python and want to understand when it's appropriate to use new and advanced language features and to do so

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in a confident manner. It is especially of use to developers looking to progress to a more senior level and to very experienced developers who have thus far used older versions of Python. What You'll Learn

- Understand asynchronous programming
- Examine developing plugin architectures
- Work with type annotations
- Review testing techniques
- Explore packaging and dependency management

Who This Book Is For Developers at the mid to senior level who already have Python experience.

Introductory Chapter: Advanced Features and Applications of Heat Exchangers—An Outline.

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Introductory Chapter: Advanced Features and Applications of Heat Exchangers—An Outline

If you are a security engineer or a system administrator and want to secure your server infrastructure with the feature-rich Untangle, this book is for you. For individuals who want to start their career in the network security field, this book would serve as a perfect companion to learn the basics of network security and how to implement it using Untangle NGFW.

Anyone who needs information about computer systems for small or home businesses will find The Small Business Computer Guide to be

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an invaluable, thorough review of all aspects of computer systems and technology suited to small businesses. In clear, easy-to-understand language, *The Small Business Computer Guide* explains hardware components, software, and telecommunications, with an emphasis on productivity, efficiency, and how systems and components can be configured to best serve an individual business' needs. Consideration is given to budgetary restraints, and Joseph S Beckman offers numerous tips and suggestions on how to put together the right system. Joseph S Beckman is a lawyer in private practice and has spent

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many years using coputers in his legal work.
He lives in Plantation, Florida.

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This book presents a global view of the development and applications of technical textiles with the description of materials, structures, properties,

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characterizations, functions and relevant production technologies, case studies, challenges, and opportunities. Technical textile is a transformative research area, dealing with the creation and studies of new generations of textiles that hoist many new scientific and technological challenges that have never been encountered before. The book emphasizes more on the principles of textile science and technology to provide solutions to several engineering problems. All chapter topics are exclusive and selectively chosen and designed, and they are extensively explored by different authors having specific knowledge in each area.

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The first hands-on guide to building Java enterprise applications, updated and expanded to cover all of J2EE's exciting new features Java has always been great when it came to creating Web applets, but, until now, it was hardly up to the task of building high-performance applications. Increased XML support, EJB 2.0, and a new APM, Java2 Enterprise Edition (J2EE), offer developers what they need to build powerful enterprise applications. This updated and expanded edition of the popular hands-on guide shows them how. It uses the examples of two large-scale enterprise applications--complete with source code--to show readers how to use J2EE's various APIs together as well

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as with other technologies, such as CORBA, COM, Servlets, and Agents. The book also features substantially expanded coverage of Enterprise JavaBeans and tells how to get the most out of EJB 2.0 tools and products. Topics of special interest to Java developers include: building a Servlet search engine; creating online stores with Java Server Pages; using transactions with EJBs and JDBC to create N-Tier applications; and selecting the best middleware for your needs.

Presenting an introduction to computing and advice on computer applications, this book examines hardware and software with respect to the needs of the social

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scientist. It offers a framework for the use of computers, with focus on the 'work station', the center of which is a personal computer connected to networks by a telephone-based modem.

This volume spans a wide range of technical disciplines and technologies, including complex systems, biomedical engineering, electrical engineering, energy, telecommunications, mechanical engineering, civil engineering, and computer science. The papers included in this volume were presented at the International Symposium on Innovative and Interdisciplinary Applications of Advanced Technologies (IAT), held in Neum, Bosnia and

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Herzegovina on June 26 and 27, 2016. This highly interdisciplinary volume is devoted to various aspects and types of systems. Systems thinking is crucial for successfully building and understanding man-made, natural, and social systems.

"This edited book will start with an introduction to feature engineering and then move onto recent concepts, methods and applications with the use of various data types that includes : text, image, streaming data, social network data, financial data, biomedical data, bioinformatics etc. to help readers gain insight into how features can be extracted and transformed from raw data"--

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This is the eBook version of the printed book. Windows Workflow Foundation (WF) is Microsoft's programming model for building workflow-enabled applications in the Windows operating system. It includes a namespace, a workflow engine, and design tools that can be used with Visual Studio .NET. Workflow is an extremely important type of application that has been difficult to build on the Microsoft platform. Workflow Foundation is a major element of the .NET Framework 3.0 platform that enables application developers to build these types of applications. In Building Applications with Windows Workflow Foundation: Advanced Workflow Features, author, MVP, speaker,

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and leading consultant Michael Stiefel introduces readers to the some of the more advanced features of Windows Workflow foundation that are necessary for building more sophisticated applications.

[25th International Conference, DASFAA 2020, Jeju, South Korea, September 24-27, 2020, Proceedings, Part II](#)

[Use Advanced Features of Computer Applications, ICAITU126A.](#)

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[Second International Conference, AMLTA 2014, Cairo, Egypt, November 28-30, 2014. Proceedings](#)

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This book constitutes the refereed proceedings of the Second International Conference on Advanced Machine Learning

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Technologies and Applications, AMLTA 2014, held in Cairo, Egypt, in November 2014. The 49 full papers presented were carefully reviewed and selected from 101 initial submissions. The papers are organized in topical sections on machine learning in Arabic text recognition and assistive technology; recommendation systems for cloud services; machine learning in watermarking/authentication and virtual machines; features extraction and

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classification; rough/fuzzy sets and applications; fuzzy multi-criteria decision making; Web-based application and case-based reasoning construction; social networks and big data sets.

This two-volume set LNCS 10827 and LNCS 10828 constitutes the refereed proceedings of the 23rd International Conference on Database Systems for Advanced Applications, DASFAA 2018, held in Gold Coast, QLD, Australia, in May 2018. The 83 full papers, 21 short

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papers, 6 industry papers, and 8 demo papers were carefully selected from a total of 360 submissions. The papers are organized around the following topics: network embedding; recommendation; graph and network processing; social network analytics; sequence and temporal data processing; trajectory and streaming data; RDF and knowledge graphs; text and data mining; medical data mining; security and privacy; search and information

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retrieval; query processing and optimizations; data quality and crowdsourcing; learning models; multimedia data processing; and distributed computing.

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