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*Introduction To
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Education Solutions
Limited*

Making use of data is not anymore

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a niche project but central to almost every project. With access to massive compute resources and vast amounts of data, it seems at least in principle possible to solve any problem. However, successful data science projects result from

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the intelligent application of: human intuition in combination with computational power; sound background knowledge with computer-aided modelling; and critical reflection of the obtained insights and results. Substantially

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updating the previous edition, then entitled Guide to Intelligent Data Analysis, this core textbook continues to provide a hands-on instructional approach to many data science techniques, and explains how these are used to solve real

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world problems. The work balances the practical aspects of applying and using data science techniques with the theoretical and algorithmic underpinnings from mathematics and statistics. Major updates on techniques and subject coverage

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(including deep learning) are included. Topics and features: guides the reader through the process of data science, following the interdependent steps of project understanding, data understanding, data blending and transformation,

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modeling, as well as deployment and monitoring; includes numerous examples using the open source KNIME Analytics Platform, together with an introductory appendix; provides a review of the basics of classical statistics that support and

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justify many data analysis methods, and a glossary of statistical terms; integrates illustrations and case-study-style examples to support pedagogical exposition; supplies further tools and information at an associated website. This practical

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and systematic textbook/reference is a “need-to-have” tool for graduate and advanced undergraduate students and essential reading for all professionals who face data science problems. Moreover, it is a

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“need to use, need to keep”
resource following one's exploration
of the subject.

The modern computer is so
powerful that a casual knowledge of
programming suffices for most of its
users. However, a variety of

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circumstances can abruptly require a much deeper understanding: the need to structure a program carefully to avoid being overwhelmed by its complexity, the need to insure reliability beyond what can be achieved by

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debugging, or the need to utilize computing resources efficiently. Beyond such practical considerations is an inherent intellectual satisfaction in mastering the fundamental concepts of programming. The aim of this book

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is to provide such mastery concept by concept.

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

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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

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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

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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

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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

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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'

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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

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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

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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,

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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,

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World Wide Web, 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

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summary and a large number of exercises.

Big, brainy science for the littlest listeners. Accurate enough to satisfy an expert, yet simple enough for baby, this clever board book showcases the use of logic,

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sequence, and patterns to solve problems. Can Baby think like a coder to fix her train? Beautiful, visually stimulating illustrations complement age-appropriate language to encourage baby's sense of wonder. Parents and

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caregivers may learn a thing or two, as well! Author's Note: The goal of the Baby Loves Science books is to introduce STEM topics in a developmentally appropriate way. As a precursor to learning programming languages and

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syntax, Baby Loves Coding presents the concepts of sequencing, problem solving, cause and effect, and thinking step-by-step. Practicing these skills early creates a solid foundation for reading, writing, math and

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eventually, programming.

Essential C# 3.0

Introduction to Algorithms, third
edition

Encyclopedia of Biometrics

Temporal Databases in the

Relational Model and SQL

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I - Z.

System Parameter Identification

**"A well-written resource
providing up-to-date
research and important
examples of application
to practice. Using a**

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strong evidence-base, the book offers a variety of perspectives which speak to the challenges faced by managers, policy makers, patients, service users and carers." -

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**Vanessa Evans,
Foundation Degree in
Mental Health Lead,
Coleg Gwent An
Introduction to Mental
Health is essential
reading for anyone**

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**learning the
fundamentals of mental
health. Written for an
interdisciplinary audience
with a patient-centred
focus, it covers historical
context through to**

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**contemporary issues,
including mental health
as it relates to the law
and to policy. Key
learning features include
concept summaries,
reflective points, case**

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**studies and reflective
exercises to help situate
content in the context of
practice. To download an
E-inspection copy click
here or for more
information contact your**

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local sales

representative.

**Genetic programming is a
method for getting a
computer to solve a
problem by telling it what
needs to be done instead**

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**of how to do it. Koza,
Bennett, Andre, and
Keane present genetically
evolved solutions to
dozens of problems of
design, optimal control,
classification, system**

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**identification, function
learning, and
computational molecular
biology. Among the
solutions are 14 results
competitive with human-
produced results,**

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**including 10
rediscoveries of
previously patented
inventions. Researchers
in artificial intelligence,
machine learning,
evolutionary**

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computation, and genetic algorithms will find this an essential reference to the most recent and most important results in the rapidly growing field of genetic programming. *

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**Explains how the success
of genetic programming
arises from seven
fundamental differences
distinguishing it from
conventional approaches
to artificial intelligence**

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and machine learning *
Describes how genetic
programming uses
architecture-altering
operations to make on-
the-fly decisions on
whether to use

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**subroutines, loops,
recursions, and memory ***
**Demonstrates that
genetic programming
possesses 16 attributes
that can reasonably be
expected of a system for**

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**automatically creating
computer programs *
Presents the general-
purpose Genetic
Programming Problem
Solver * Focuses on the
previously unsolved**

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**problem of analog circuit
synthesis, presenting
genetically evolved
filters, amplifiers,
computational circuits, a
robot controller circuit,
source identification**

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**circuits, a temperature-
measuring circuit, a
voltage reference circuit,
and more * Introduces
evolvable hardware in the
form of field-
programmable gate**

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**arrays * Includes an
introduction to genetic
programming for the
uninitiated
The organized and
accessible format of
Introduction to**

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**Information Technology,
which is part of Express
Learning, a series of
books designed as quick
reference guides to
important undergraduate
courses, allows students**

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**to learn important
concepts in**

**This is the eBook of the
printed book and may not
include any media,
website access codes, or
print supplements that**

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**may come packaged with
the bound book.**

**Database Systems: The
Complete Book is ideal
for Database Systems
and Database Design and
Application courses**

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**offered at the junior,
senior and graduate
levels in Computer
Science departments. A
basic understanding of
algebraic expressions and
laws, logic, basic data**

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**structure, OOP concepts,
and programming
environments is implied.
Written by well-known
computer scientists, this
introduction to database
systems offers a**

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**comprehensive approach,
focusing on database
design, database use,
and implementation of
database applications
and database
management systems.**

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The first half of the book provides in-depth coverage of databases from the point of view of the database designer, user, and application programmer. It covers

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**the latest database
standards SQL:1999,
SQL/PSM, SQL/CLI, JDBC,
ODL, and XML, with
broader coverage of SQL
than most other texts.
The second half of the**

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book provides in-depth coverage of databases from the point of view of the DBMS implementor. It focuses on storage structures, query processing, and

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**transaction management.
The book covers the main
techniques in these areas
with broader coverage of
query optimization than
most other texts, along
with advanced topics**

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**including
multidimensional and
bitmap indexes,
distributed transactions,
and information
integration techniques.
Data Structures and**

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**Algorithm Analysis in
C++, Third Edition
Time and Relational
Theory
Introduction to Database
Systems
Computer Structures**

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Darwinian Invention and Problem Solving A Conceptual Approach

Praise for the First Edition ". . .
outstandingly appealing with
regard to its style, contents,
considerations of

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requirements of practice,
choice of examples, and
exercises." —Zentrablatt Math
". . . carefully structured with
many detailed worked
examples . . ." —The
Mathematical Gazette ". . . an

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up-to-date and user-friendly
account . . ." —Mathematika An
Introduction to Numerical
Methods and Analysis
addresses the mathematics
underlying approximation and
scientific computing and

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successfully explains where approximation methods come from, why they sometimes work (or don't work), and when to use one of the many techniques that are available. Written in a style that

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emphasizes readability and usefulness for the numerical methods novice, the book begins with basic, elementary material and gradually builds up to more advanced topics. A selection of concepts required

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for the study of computational mathematics is introduced, and simple approximations using Taylor's Theorem are also treated in some depth. The text includes exercises that run the gamut from simple

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hand computations, to
challenging derivations and
minor proofs, to programming
exercises. A greater emphasis
on applied exercises as well
as the cause and effect
associated with numerical

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mathematics is featured throughout the book. An Introduction to Numerical Methods and Analysis is the ideal text for students in advanced undergraduate mathematics and engineering

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courses who are interested in gaining an understanding of numerical methods and numerical analysis.

Computer Fundamentals is specifically designed to be used at the beginner level. It

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covers all the basic hardware and software concepts in computers and its peripherals in a very lucid manner.

Essential C# 3.0 is an extremely well-written and well-organized "no-fluff" guide to

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C# 3.0, which will appeal to programmers at all levels of experience with C#. This fully updated edition dives deep into the new features that are revolutionizing programming, with brand new chapters

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covering query expressions,
lambda expressions,
extension methods, collection
interface extensions, standard
query operators, and LINQ as
a whole. Author Mark
Michaelis covers the C#

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language in depth, and each important construct is illustrated with succinct, relevant code examples. (Complete code examples are available online.) Graphical "mind maps" at the beginning

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of each chapter show what material is covered and how each topic relates to the whole. Topics intended for beginners and advanced readers are clearly marked. Following an introduction to

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C#, readers learn about C# primitive data types, value types, reference types, type conversions, and arrays
Operators and control flow, loops, conditional logic, and sequential programming

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Methods, parameters,
exception handling, and
structured programming
Classes, inheritance,
structures, interfaces, and
object-oriented programming
Well-formed types, operator

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overloading, namespaces, and
garbage collection Generics,
collections, custom
collections, and iterators
Delegates and lambda
expressions Standard query
operators and query

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expressions LINQ: language
integrated query Reflection,
attributes, and declarative
programming Threading,
synchronization, and
multithreaded patterns
Interoperability and unsafe

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code The Common Language
Infrastructure that underlies
C# Whether you are just
starting out as a programmer,
are an experienced developer
looking to learn C#, or are a
seasoned C# programmer

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interested in learning the new features of C# 3.0, Essential C# 3.0 gives you just what you need to quickly get up and running writing C# applications.

Scores of talented and

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dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support.

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It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable

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standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and

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suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and

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regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening

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Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training,

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widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy

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makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Signal Processing Theory and
Machine Learning

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Glut

Information Criteria and
Algorithms

Computer Fundamentals

How to Intelligently Make Use
of Real Data

The Nist Handbook

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This volume presents the proceedings of a workshop on the processing of declarative knowledge. The workshop addressed the implementation of high-level knowledge representation using definite

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clauses, rules, constraints,
functions, conceptual graphs,
and related formalisms.

Time and Relational Theory
provides an in-depth description
of temporal database systems,
which provide special facilities for

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storing, querying, and updating historical and future data.

Traditionally, database management systems provide little or no special support for temporal data at all. This situation is changing because:

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Cheap storage enables retention of large volumes of historical data in data warehouses. Users are now faced with temporal data problems, and need solutions. Temporal features have recently been incorporated into the SQL

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standard, and vendors have begun to add temporal support to their DBMS products Based on the groundbreaking text Temporal Data & the Relational Model (Morgan Kaufmann, 2002) and new research led by the

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authors, Time and Relational
Theory is the only book to offer a
complete overview of the
functionality of a temporal
DBMS. Expert authors Nikos
Lorentzos, Hugh Darwen, and
Chris Date describe an approach

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to temporal database
management that is firmly rooted
in classical relational theory and
will stand the test of time. This
book covers the SQL:2011
temporal extensions in depth and
identifies and discusses the

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temporal functionality still
missing from SQL. Understand
how the relational model
provides an ideal basis for
taming the complexities of
temporal databases Learn how
to analyze and evaluate

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commercial temporal products
with this timely and important
information Be able to use sound
principles in designing and using
temporal databases Understand
the temporal support recently
added to SQL with coverage of

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the new SQL features in this
unique, accurate, and
authoritative reference

Appreciate the benefits of a truly
relational approach to the
problem with this clear, user
friendly presentation

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Comprehensive treatment focuses on creation of efficient data structures and algorithms and selection or design of data structure best suited to specific problems. This edition uses C++ as the programming language.

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Covers: elements of computer security; roles and responsibilities; common threats; computer security policy; computer security program and risk management; security and planning in the computer system

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life cycle; assurance;
personnel/user issues; preparing
for contingencies and disasters;
computer security incident
handling; awareness, training,
and education; physical and
environmental security;

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identification and authentication;
logical access control; audit
trails; cryptography; and
assessing and mitigating the
risks to a hypothetical computer
system.

Python for Everybody

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INTRODUCTION TO
INFORMATION TECHNOLOGY
Guide to Intelligent Data Science
A Computer Science Perspective
An Introduction to Numerical
Methods and Analysis
Digital Signal Processing

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Written in plain English and based on successful client engagements, *Data Modeling of Financial Derivatives: A Conceptual Approach* introduces new and veteran data modelers, financial analysts, and IT

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professionals to the
fascinating world of
financial derivatives.

Covering futures, forwards,
options, swaps, and forward
rate agreements, finance and
modeling expert Robert
Mamayev shows you step-by-

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step how to structure and describe financial data using advanced data modeling techniques. The book introduces IT professionals, in particular, to various financial and data modeling concepts that they may not

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have seen before, giving them greater proficiency in the financial language of derivatives—and greater ability to communicate with financial analysts without fear or hesitation. Such knowledge will be especially

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useful to those looking to pick up the necessary skills to become productive right away working in the financial sector. Financial analysts reading this book will come to grips with various data modeling

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concepts and therefore be in better position to explain the underlying business to their IT audience. Data Modeling of Financial Derivatives—which presumes no advanced knowledge of derivatives or data

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modeling—will help you:

Learn the best
entity-relationship modeling
method out there—Barker's
CASE methodology—and its
application in the financial
industry Understand how to
identify and creatively

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reuse data modeling patterns
Gain an understanding of
financial derivatives and
their various applications
Learn how to model
derivatives contracts and
understand the reasoning
behind certain design

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decisions Resolve
derivatives data modeling
complexities parsimoniously
so that your clients can
understand them intuitively
Packed with numerous
examples, diagrams, and
techniques, this book will

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enable you to recognize the various design patterns that you are most likely to encounter in your professional career and apply them successfully in practice. Anyone working with financial models will

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find it an invaluable tool
and career booster. What
you'll learnYou will learn
how to: Recognize and
identify financial
derivatives Reuse data
modeling patterns and apply
them to create something new

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Data model simple and
complex options Data model
SWAPS Data model futures and
forward contracts Who this
book is for Data modelers,
financial analysts, IT
professionals, and anyone
with an interest in data

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modeling and business

analysis. Table of Contents

Introduction Notation

Financial Contracts Primer

Modeling Forward Contracts

Modeling Futures Contracts

Modeling Options Advanced

Options Modeling - Designing

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Trading Strategies Swaps and
Forward Rate Agreements
(FRAs) Finishing Thoughts
Get a working knowledge of
digital signal processing
for computer science
applications The field of
digital signal processing

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(DSP) is rapidly exploding,
yet most books on the
subject do not reflect the
real world of algorithm
development, coding for
applications, and software
engineering. This important
new work fills the gap in

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the field, providing
computer professionals with
a comprehensive introduction
to those aspects of DSP
essential for working on
today's cutting-edge
applications in speech
compression and recognition

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and modem design. The author walks readers through a variety of advanced topics, clearly demonstrating how even such areas as spectral analysis, adaptive and nonlinear filtering, or communications and speech

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signal processing can be made readily accessible through clear presentations and a practical hands-on approach. In a light, reader-friendly style, Digital Signal Processing: A Computer Science Perspective

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provides: * A unified
treatment of the theory and
practice of DSP at a level
sufficient for exploring the
contemporary professional
literature * Thorough
coverage of the fundamental
algorithms and structures

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needed for designing and
coding DSP applications in a
high level language *

Detailed explanations of the
principles of digital signal
processors that will allow
readers to investigate
assembly languages of

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specific processors * A
review of special algorithms
used in several important
areas of DSP, including
speech
compression/recognition and
digital communications *
More than 200 illustrations

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as well as an appendix
containing the essential
mathematical background
The second edition of
Introduction to Computer
Science furthers the first
edition by including
discussions on the recent

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topics. Few of the newly added topics are: blue-ray disk, USB drive, virtual reality etc. Inclusion of large number of practice question makes the book very useful for students.

With an A-Z format, this

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encyclopedia provides easy access to relevant information on all aspects of biometrics. It features approximately 250 overview entries and 800 definitional entries. Each entry includes a definition, key words,

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list of synonyms, list of related entries, illustration(s), applications, and a bibliography. Most entries include useful literature references providing the reader with a portal to more

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detailed information.

Genetic Programming III

Introduction to Computer

Science, 2/e

An Introduction to Computer

Security

Essentials of Metaheuristics

(Second Edition)

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Introducing MLOps

Encyclopedia of Computer
Science

*The latest edition of the
essential text and
professional reference, with
substantial new material on*

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*such topics as vEB trees,
multithreaded algorithms,
dynamic programming, and
edge-based flow. Some
books on algorithms are
rigorous but incomplete;
others cover masses of*

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material but lack rigor.

*Introduction to Algorithms
uniquely combines rigor and
comprehensiveness. The
book covers a broad range of
algorithms in depth, yet
makes their design and*

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analysis accessible to all levels of readers. Each chapter is relatively self-contained and can be used as a unit of study. The algorithms are described in English and in a pseudocode

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designed to be readable by anyone who has done a little programming. The explanations have been kept elementary without sacrificing depth of coverage or mathematical rigor. The

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first edition became a widely used text in universities worldwide as well as the standard reference for professionals. The second edition featured new chapters on the role of

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*algorithms, probabilistic
analysis and randomized
algorithms, and linear
programming. The third
edition has been revised and
updated throughout. It
includes two completely new*

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chapters, on van Emde Boas trees and multithreaded algorithms, substantial additions to the chapter on recurrence (now called “Divide-and-Conquer”), and an appendix on matrices. It

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*features improved treatment
of dynamic programming
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new notion of edge-based
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Recently, criterion functions based

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