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As we all know by now, wireless networks offer many advantages over fixed (or wired) networks. Foremost on that list is mobility, since going wireless frees you

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from the tether of an Ethernet cable at a desk. But that's just the tip of the cable-free iceberg. Wireless networks are also more flexible, faster and easier for you to use, and more affordable to deploy

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and maintain. The de facto standard for wireless networking is the 802.11 protocol, which includes Wi-Fi (the wireless standard known as 802.11b) and its faster cousin, 802.11g. With easy-to-install 802.11

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network hardware available everywhere you turn, the choice seems simple, and many people dive into wireless computing with less thought and planning than they'd give to a wired network. But it's wise to be

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familiar with both the capabilities and risks associated with the 802.11 protocols. And 802.11 Wireless Networks: The Definitive Guide, 2nd Edition is the perfect place to start. This updated

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edition covers everything you'll ever need to know about wireless technology. Designed with the system administrator or serious home user in mind, it's a no-nonsense guide for setting up 802.11 on Windows and

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Linux. Among the wide range of topics covered are discussions on: deployment considerations network monitoring and performance tuning wireless security issues how to use and select access points network

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monitoring essentials
wireless card configuration
security issues unique to
wireless networks With
wireless technology, the
advantages to its users are
indeed plentiful. Companies
no longer have to deal with

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the hassle and expense of wiring buildings, and households with several computers can avoid fights over who's online. And now, with 802.11 Wireless Networks: The Definitive Guide, 2nd Edition, you can

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integrate wireless
technology into your current
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utmost confidence.

Contains data on over 300
liquid cargoes being
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water. This Chemical Data

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Guide was developed in the interest of safe water movement of bulk chemicals. By providing key chemical information, this guide can help prevent or at least minimize the harmful effects of chemical accidents on the

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waterways. Edge indexed.
A Practical Handbook for
Drilling Fluids Processing
delivers a much-needed
reference for drilling fluid
and mud engineers to safely
understand how the drilling
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affects the drilling process. Agitation and blending of new additions to the surface system are explained with each piece of drilled solids removal equipment discussed in detail. Several calculations

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of drilled solids, such as effect of retort volumes, are included, along with multiple field methods, such as determining the drilled solids density. Tank arrangements are covered as well as operating guidelines

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for the surface system.
Rounding out with a
solutions chapter with
additional instruction and
an appendix with equation
derivations, this book gives
today's drilling fluid
engineers a tool to

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understand the technology available and step-by-step guidelines of how-to safety evaluate surface systems in the oil and gas fields. Presents practical guidance from real example problems that are encountered on

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drilling rigs Helps readers
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arrangements

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you can build powerful statistical models to answer many of your most challenging questions. R has traditionally been difficult for non-statisticians to learn, and most R books assume far too much

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knowledge to be of help. R
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Drawing on his unsurpassed
experience teaching new
users, professional data
scientist Jared P. Lander
has written the perfect

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tutorial for anyone new to statistical programming and modeling. Organized to make learning easy and intuitive, this guide focuses on the 20 percent of R functionality you'll need to accomplish 80 percent of modern data

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tasks. Lander's self-contained chapters start with the absolute basics, offering extensive hands-on practice and sample code. You'll download and install R; navigate and use the R environment; master basic

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program control, data import, manipulation, and visualization; and walk through several essential tests. Then, building on this foundation, you'll construct several complete models, both linear and

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nonlinear, and use some data mining techniques. After all this you'll make your code reproducible with LaTeX, RMarkdown, and Shiny. By the time you're done, you won't just know how to write R programs, you'll be ready to

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**802.11 Wireless Networks:
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Driving Value Within a
Changing Organization
Through Learning and
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Example Questions and Worked

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Answers

Software-Defined Radio for Engineers

Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a practical approach to quickly learning the software-defined radio

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(SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain

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an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and

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source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided

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This document is a self learning document
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course contains (1) a part for beginners, (2)

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a discussion of several advanced topics that are of interest to Python programmers, and (3) a Pythonworkbook with lots of exercises.

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a pharmaceutical
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editor, with more than
thirty years' experience
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carefully reviewed all the chapters to ensure that each one is thorough, accurate, and clear.

If you're considering R for statistical computing and data visualization,

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machine learning pipelines with
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using MLflow

Program synthesis is the task of automatically finding a program in the underlying programming language that satisfies the user intent expressed in the form of some specification. Since the inception of artificial intelligence in

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the 1950s, this problem has been considered the holy grail of Computer Science. Despite inherent challenges in the problem such as ambiguity of user intent and a typically enormous search space of programs, the field of program synthesis has developed

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many different techniques that enable program synthesis in different real-life application domains. It is now used successfully in software engineering, biological discovery, compute-raided education, end-user programming, and data

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cleaning. In the last decade, several applications of synthesis in the field of programming by examples have been deployed in mass-market industrial products. This monograph is a general overview of the state-of-the-art approaches to program synthesis,

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its applications, and subfields. It discusses the general principles common to all modern synthesis approaches such as syntactic bias, oracle-guided inductive search, and optimization techniques. We then present a literature review covering the four most common

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state-of-the-art techniques in program synthesis: enumerative search, constraint solving, stochastic search, and deduction-based programming by examples. It concludes with a brief list of future horizons for the field. This book presents material from

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3 survey lectures and 14 additional invited lectures given at the Euroconference "Computational Methods for Representations of Groups and Algebras" held at Essen University in April 1997. The purpose of this meeting was to provide a survey of general

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theoretical and computational methods and recent advances in the representation theory of groups and algebras. The foundations of these research areas were laid in survey articles by P. DrAxler and R. NArenberg on "Classification problems in the

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representation theory of finite-dimensional algebras," R. A. Wilson on "Construction of finite matrix groups" and E. Green on "Noncommutative GrAbner bases, and projective resolutions." Furthermore, new applications of the computational methods in

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linear algebra to the revision of the classification of finite simple sporadic groups are presented. Computational tools (including high-performance computations on supercomputers) have become increasingly important for classification problems. They are

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also inevitable for the construction of projective resolutions of finitely generated modules over finite-dimensional algebras and the study of group cohomology and rings of invariants. A major part of this book is devoted to a survey of algorithms for computing special

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examples in the study of Grothendieck groups, quadratic forms and derived categories of finite-dimensional algebras. Open questions on Lie algebras, Bruhat orders, Coxeter groups and Kazhdan Lusztig polynomials are investigated with the aid of

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computer programs. The contents of this book provide an overview on the present state of the art. Therefore it will be very useful for graduate students and researchers in mathematics, computer science and physics.

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Pressure vessel inspection; API RP 571 Damage mechanisms; API RP 577 Welding; ASME VIII Vessel design; ASME V NDE; and ASME IX Welding qualifications. Provides simple, accessible and well-structured guidance for anyone

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are called embedded systems, and the software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from their interaction with physical processes. This book takes a cyber-

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know a bit about machine learning, but have never used R; or perhaps you know a little R but are new to machine learning. In either case, this book will get you up and running quickly. It would be helpful to have a bit of familiarity with basic programming concepts, but no prior experience is required.

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control; linkage; and corrosion. The theme of this manual is failure physics - the study of how products, hardware, software, and systems fail and what can be done about it. The intent is to impart useful

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