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espionage are increasingly common and devastating threats, making trained network security professionals more important than ever. This timely text helps you gain the knowledge and skills to protect networks using the tools and techniques of an ethical hacker. The authors begin by

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exploring the concept of ethical hacking and its practitioners, explaining their importance in protecting corporate and government data from cyber attacks. The text then provides an in-depth guide to performing security testing against computer networks, covering current

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tools and penetration testing methodologies. Updated for today's cyber security environment, the Third Edition of this trusted text features new computer security resources, coverage of emerging vulnerabilities and innovative methods to protect networks, a new discussion of mobile

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security, and information on current federal and state computer crime laws, including penalties for illegal computer hacking. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Computational Geometry is an area

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that provides solutions to geometric problems which arise in applications including Geographic Information Systems, Robotics and Computer Graphics. This Handbook provides an overview of key concepts and results in Computational Geometry. It may serve as a reference and study guide

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to the field. Not only the most advanced methods or solutions are described, but also many alternate ways of looking at problems and how to solve them.

The design and analysis of efficient data structures has long been recognized as a key component of the

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Computer Science curriculum.

Goodrich, Tomassia and Goldwasser's approach to this classic topic is based on the object-oriented paradigm as the framework of choice for the design of data structures. For each ADT presented in the text, the authors provide an associated Java interface.

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Concrete data structures realizing the ADTs are provided as Java classes implementing the interfaces. The Java code implementing fundamental data structures in this book is organized in a single Java package, `net.datastructures`. This package forms a coherent library of data

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structures and algorithms in Java
specifically designed for educational
purposes in a way that is
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themselves security
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misuses of computer security. I expect that it will motivate a good number of college students to want to learn more about the field, at the same time that it will satisfy the more experienced professional."

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Department of Computer
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to meet today's security challenges--and anticipate tomorrow's. Unlike most books, *The Craft of System Security* doesn't just review the modern security practitioner's toolkit: It explains why each tool

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This book constitutes the refereed proceedings of the Cryptographers' Track at the

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RSA Conference 2003, CT-RSA 2003, held in San Francisco, CA, USA, in April 2003. The 26 revised full papers presented together with abstracts of 2 invited talks were carefully reviewed and selected from 97

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submissions. The papers are organized in topical sections on key self-protection, message authentication, digital signatures, pairing based cryptography, multivariate and lattice problems,

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new RSA-based cryptosystems,
chosen-ciphertext security,
broadcast encryption and PRF
sharing, authentication
structures, elliptic curves
and pairings, threshold
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implementation issues.

The Definitive Guide to MongoDB, Third Edition, is updated for MongoDB 3 and includes all of the latest MongoDB features, including the aggregation framework introduced in version 2.2

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and hashed indexes in version 2.4. The Third Edition also now includes Python. MongoDB is the most popular of the "Big Data" NoSQL database technologies, and it's still growing. David Hows from 10gen, along

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with experienced MongoDB authors Peter Membrey and Eelco Plugge, provide their expertise and experience in teaching you everything you need to know to become a MongoDB pro.

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Understanding the
Interactions between
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Issues Taking an
interactive, "learn-by-
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Network Security: Navigating Shades of Gray gives you a clear course to teach the technical issues related to security. Unlike most computer security books, which concentrate on software design and

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choosing countermeasures to neutralize the attacks in the projects, students learn: How computer systems and networks operate How to reverse-engineer processes How to use systems in ways that were never foreseen (or

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supported) by the original developers Combining hands-on work with technical overviews, this text helps you integrate security analysis into your technical computing curriculum. It will educate your students

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on security issues, such as side-channel attacks, and deepen their understanding of how computers and networks work.

10th International Workshop,
WADS 2007, Halifax, Canada,
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Michael Goodrich and Roberto
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legal issues. The authors explore the well-established connection between social norms, privacy, security, and technological structure. They also discuss how rapid technological developments have created

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novel situations that lack relevant norms and present ways to develop these norms for protecting informational privacy and ensuring sufficient information security.

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games, computing industry, science, engineering, and the internet. The text teaches students about designing and using algorithms, illustrating connections between topics being taught and their potential

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*applications, increasing
engagement.*

*The papers in this volume were
presented at the 10th Workshop
on Algorithms and Data
Structures (WADS 2005). The
workshop took place August 15 -*

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*17, 2007, at Dalhousie
University, Halifax, Canada. The
workshop alternates with the
Scandinavian Workshop on
Algorithm Theory (SWAT),
continuing the tradition of SWAT
and WADS starting with SWAT*

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1988 and WADS 1989. From 142 submissions, the Program Committee selected 54 papers for presentation at the workshop. In addition, invited lectures were given by the following distinguished researchers: Je?

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Erickson (University of Illinois at Urbana-Champaign) and Mike Langston (University of Tennessee). On behalf of the Program Committee, we would like to express our sincere appreciation to the many

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persons whose effort contributed to making WADS 2007 a success. These include the invited speakers, members of the Steering and Program Committees, the authors who submitted papers,

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and the many referees who assisted the Program Committee. We are indebted to Gerardo Reynaga for installing and modifying the submission software, maintaining the submission server and

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interacting with authors as well as for helping with the preparation of the program. This text provides a practical survey of both the principles and practice of cryptography and network security. First, the basic

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issues to be addressed by a network security capability are explored through a tutorial and survey of cryptography and network security technology. Then, the practice of network security is explored via practical

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applications that have been implemented and are in use today.

This textbook explains the concepts and techniques required to write programs that can handle large amounts of

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data efficiently. Project-oriented and classroom-tested, the book presents a number of important algorithms supported by examples that bring meaning to the problems faced by computer programmers. The idea of

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computational complexity is also introduced, demonstrating what can and cannot be computed efficiently so that the programmer can make informed judgements about the algorithms they use. Features: includes both

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The Craft of System Security

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The first edition won the award for

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There are books on algorithms that
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but lack rigor. Introduction to Algorithms combines rigor and comprehensiveness. The book covers a broad range of algorithms in depth, yet makes their design and analysis accessible to all levels of readers. Each chapter is relatively

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self-contained and can be used as a unit of study. The algorithms are described in English and in a pseudocode designed to be readable by anyone who has done a little programming. The explanations have been kept elementary without

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sacrificing depth of coverage or mathematical rigor. The first edition became the standard reference for professionals and a widely used text in universities worldwide. The second edition features new chapters on the role of algorithms,

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probabilistic analysis and randomized algorithms, and linear programming, as well as extensive revisions to virtually every section of the book. In a subtle but important change, loop invariants are introduced early and used

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throughout the text to prove algorithm correctness. Without changing the mathematical and analytic focus, the authors have moved much of the mathematical foundations material from Part I to an appendix and have included

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additional motivational material at the beginning.

For computer-security courses that are taught at the undergraduate level and that have as their sole prerequisites an introductory computer science sequence (e.g.,

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CS 1/CS 2) A Computer Security textbook for a new generation of IT professionals Unlike most other computer security textbooks available today, Introduction to Computer Security, does NOT focus on the mathematical and

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computational foundations of security, and it does not assume an extensive background in computer science. Instead it looks at the systems, technology, management, and policy side of security, and offers students fundamental security

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concepts and a working knowledge of threats and countermeasures with just-enough background in computer science. The result is a presentation of the material that is accessible to students of all levels. Teaching and Learning Experience This program

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Careers in a Variety of Fields: A practical introduction encourages students to think about security of software applications early. *Engage Students with Creative, Hands-on Projects: An excellent collection of programming projects stimulate the

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student's creativity by challenging them to either break security or protect a system against attacks.

*Enhance Learning with Instructor and Student Supplements:

Resources are available to expand on the topics presented in the text.

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This book is designed for a one-semester operating-systems course for advanced undergraduates and beginning graduate students. Prerequisites for the course generally include an introductory course on computer architecture and

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an advanced programming course. The goal of this book is to bring together and explain current practice in operating systems. This includes much of what is traditionally covered in operating-system textbooks: concurrency, scheduling, linking and

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loading, storage management (both real and virtual), file systems, and security. However, the book also covers issues that come up every day in operating-systems design and implementation but are not often taught in undergraduate courses.

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For example, the text includes: Deferred work, which includes deferred and asynchronous procedure calls in Windows, tasklets in Linux, and interrupt threads in Solaris. The intricacies of thread switching, on both uniprocessor and

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multiprocessor systems. Modern file systems, such as ZFS and WAFL. Distributed file systems, including CIFS and NFS version 4. The book and its accompanying significant programming projects make students come to grips with current

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operating systems and their major operating-system components and to attain an intimate understanding of how they work.

Presenting a complementary perspective to standard books on algorithms, A Guide to Algorithm

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of algorithmic complexity and guides readers in solving algorithmic problems. Divided into three parts, the book offers a comprehensive set of problems with solutions as well as in-depth case studies that demonstrate how to assess the

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complexity of a new problem. Part I helps readers understand the main design principles and design efficient algorithms. Part II covers polynomial reductions from NP-complete problems and approaches that go beyond NP-completeness.

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Part III supplies readers with tools and techniques to evaluate problem complexity, including how to determine which instances are polynomial and which are NP-hard. Drawing on the authors' classroom-tested material, this text takes

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readers step by step through the concepts and methods for analyzing algorithmic complexity. Through many problems and detailed examples, readers can investigate polynomial-time algorithms and NP-completeness and beyond.

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book covers a broad range of algorithms in depth, yet makes their design and analysis accessible to all levels of readers. Each chapter is relatively self-contained and can be used

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as a unit of study. The algorithms are described in English and in a pseudocode designed to be readable by anyone who has done a little programming. The explanations have been

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substantial additions to the chapter on recurrence (now called “Divide-and-Conquer”), and an appendix on matrices. It features improved treatment of dynamic programming and

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describing algorithms and approaches, the author offers details on how to analyze the performance of algorithms. The book is filled with exercises that can be used to explore

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Offers methods can be
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updated and written in
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Algorithms has been
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well as on algorithm design paradigms in which recursion is prevalent (divide and conquer, and backtracking).

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main assets is the use of a step-by-step methodology, together with specially designed diagrams, for guiding and illustrating the process of developing recursive algorithms. Furthermore, the book covers combinatorial problems and mutual recursion. These topics can

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broaden students' understanding of recursion by forcing them to apply the learned concepts differently, or in a more sophisticated manner. The code examples have been written in Python 3, but should be straightforward to understand for students with

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