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About the Author. Professors Goodrich and Tamassia are well-recognized researchers in data structures and algorithms. Michael Goodrich received his Ph.D. in Computer Science from Purdue University. He is currently a professor in the Department of Computer Science at the University of California, Irvine.

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Computer Science from Purdue University in 1987. He is currently a Chancellor's Professor in the Department of Computer

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Professor Goodrich and Tamassia are well-recognized researchers in algorithms and data structures, having published many papers in this field, with applications to Internet computing, information visualization, computer security, and geometric computing. they have served as principal investigators in several joint projects sponsored by the National

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Science Foundation, the Army Research Office, and the Defense Advanced research Projects Agency.

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He was a professor in the Department of Computer Science at Johns Hopkins University from 1987-2001. Dr. Goodrich's research is directed at the design of high performance algorithms and data structures with application to information assurance and security, the Internet, machine learning, and geometric computing.

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This module covers the concepts associated with data structures and algorithms including the design of algorithms considering factors such as efficiency and complexity. A range of widely employed data structures such as Arrays, Lists, Trees and Queues are investigated. Coverage of algorithms such as searching and sorting as well as those associated with graph data structures are also included.

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## DATA STRUCTURES AND ALGORITHMS - GCU

This is a "sister" book to Goodrich & Tamassia's Data Structures and Algorithms in Java, but uses C++ as the basis language instead of Java. This C++ version retains the same pedagogical approach and general structure as the Java version so schools that teach data structures in both C++ and Java can share the same core syllabus.

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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 structures and algorithms in Java specifically designed for educational purposes in a way that is complimentary with the Java Collections Framework.

Based on the authors' market leading data structures books in Java and C++, this textbook offers a comprehensive, definitive introduction to data

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author team of experts in their fields, this authoritative guide demystifies even the most difficult mathematical concepts so that you can gain a clear understanding of data structures and algorithms in C++. The unparalleled author team incorporates the object-oriented design paradigm using C++ as the implementation language, while also providing intuition and analysis of fundamental algorithms. Offers a unique multimedia format for learning the fundamentals of data structures and algorithms. Allows you to visualize key

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Goodrich & Roberto Tamassia!

Algorithms is a course required for all computer science majors, with a strong focus on theoretical topics. Students enter the course after gaining hands-on experience with computers, and are expected to learn how algorithms can be applied to a variety of contexts. This new book integrates application with theory. Goodrich & Tamassia believe that the best way to teach algorithmic topics is to present them in a context that is motivated from applications to uses in society, computer games, computing industry, science, engineering, and the

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Goodrich Solutions internet. The text teaches students about designing and using algorithms, illustrating connections between topics being taught and their potential applications, increasing engagement.

Michael Goodrich and Roberto Tamassia, authors of the successful, Data Structures and Algorithms in Java, 2/e, have written Algorithm Engineering, a text designed to provide a comprehensive introduction to the design, implementation and analysis of computer algorithms and data structures from a modern perspective. This book offers theoretical

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associated Java interface. 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 structures and algorithms in Java specifically designed for educational purposes in a way that is complimentary with the Java Collections Framework.

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