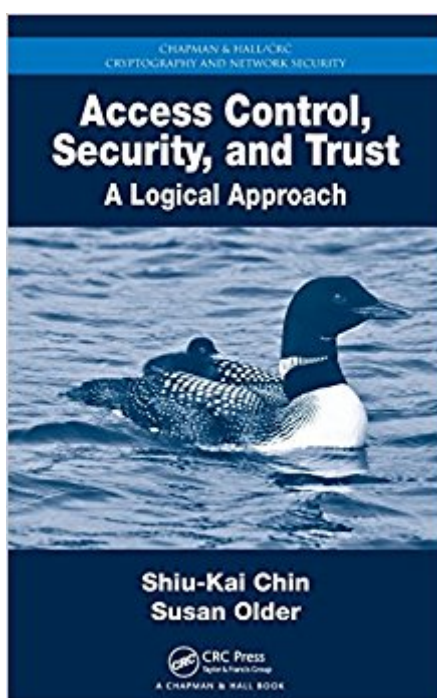**The book was found**

Access Control, Security, And Trust: A Logical Approach (Chapman & Hall/CRC Cryptography And Network Security Series)

Synopsis

Developed from the authorsÃ¢â¬â„¢ courses at Syracuse University and the U.S. Air Force Research Laboratory, Access Control, Security, and Trust: A Logical Approach equips readers with an access control logic they can use to specify and verify their security designs. Throughout the text, the authors use a single access control logic based on a simple propositional modal logic. The first part of the book presents the syntax and semantics of access control logic, basic access control concepts, and an introduction to confidentiality and integrity policies. The second section covers access control in networks, delegation, protocols, and the use of cryptography. In the third section, the authors focus on hardware and virtual machines. The final part discusses confidentiality, integrity, and role-based access control. Taking a logical, rigorous approach to access control, this book shows how logic is a useful tool for analyzing security designs and spelling out the conditions upon which access control decisions depend. It is designed for computer engineers and computer scientists who are responsible for designing, implementing, and verifying secure computer and information systems.

Book Information

Series: Chapman & Hall/CRC Cryptography and Network Security Series

Hardcover: 352 pages

Publisher: Chapman and Hall/CRC; 1 edition (July 26, 2010)

Language: English

ISBN-10: 1584888628

ISBN-13: 978-1584888628

Product Dimensions: 6.1 x 0.8 x 9.2 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #334,438 in Books (See Top 100 in Books) #55 inÃ Â Books > Science & Math > Mathematics > Pure Mathematics > Combinatorics #82 inÃ Â Books > Computers & Technology > Certification > CompTIA #341 inÃ Â Books > Computers & Technology > Networking & Cloud Computing > Network Security

Customer Reviews

Focusing on the logic of access control, more than on actual computer programming, this volume is designed as a textbook for undergraduates. Each chapter ends with exercises and a concise description of expected learning outcomes. The authors, both in electrical engineering and

computer science at Syracuse University, also teach an intensive summer course on access control for hundreds of ROTC cadets. It contains a useful selection of tables and figures, a notation index and a brief bibliography.Ã¢â ¬â ¢SciTech Book News, February 2011

Shiu-Kai Chin is a Meredith Professor in the Department of Electrical Engineering and Computer Science at Syracuse University. He is also director of the Center for Information and Systems Assurance and Trust. While at Syracuse, Dr. Chin has received the Outstanding Teacher Award, the ChancellorÃ¢â ¬â„¢s Citation for Outstanding Contributions to the UniversityÃ¢â ¬â„¢s Academic Programs, and the Crouse Hinds Award for Excellence in Education. Susan Older is an associate professor in the Department of Electrical Engineering and Computer Science at Syracuse University. She is also the program director for the Certificate of Advanced Study in Systems Assurance. Dr. OlderÃ¢â ¬â„¢s research interests include programming-language semantics, logics of programs, formal methods, and information-assurance and computer science education.

Nice brand new book!

I teach a graduate course in information security. One of the headaches that I confront when teaching this course is the choice of reading material for the students. Matt Bishop's tome is encyclopedic, but it doesn't present enough depth in any particular subject for my grad class. Usually, I end up just assigning published research articles. This choice is OK, but less than ideal.Then along came this text. It applies modal logic to access control security models, policies and mechanisms. Although it concerns mathematical logics for security, it seems to be require just a bit of mathematical maturity to understand---my (non-logician) students get it without much trouble. I just started using this text for my class and will continue to do so.

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