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

By Shiu-Kai Chin, Susan Beth Older

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Developed from the authors' 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.

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Editorial Review

Review

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.
?*SciTech Book News*, February 2011

About the Author

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 Chancellor's Citation for Outstanding Contributions to the University'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. Older's research interests include programming-language semantics, logics of programs, formal methods, and information-assurance and computer science education.

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