



# Guide to Computer Network Security (Computer Communications and Networks)

By Joseph Migga Kizza

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## **Guide to Computer Network Security (Computer Communications and Networks) By Joseph Migga Kizza**

This fully updated new edition explores the security issues, vulnerabilities and dangers encountered by the users of modern computing and communication devices, highlighting the need to develop improved algorithms, protocols, and best practices to enhance the security of public, private and enterprise systems alike.

Features: introduces the fundamentals of traditional computer networks and the security threats they face; discusses the security challenges introduced by virtualization software, cloud computing and mobile systems; examines the security quagmire presented by the home computing environment; raises important legislative, legal, social, technical and ethical security issues, including the tension between the needs of individual privacy and collective security; provides both quickly workable and more thought-provoking exercises at the end of each chapter, with one chapter devoted entirely to lab exercises; supplies additional support material for instructors at an associated website.

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## **Editorial Review**

### Review

“The book offers relevant definitions in the field of security and computer networks ... . The book is definitively addressed to the general nonspecialist public; practitioners may be able to consult it for some definitions. ... It is, in my view, important to emphasize that all of the topics are covered in a merely definitional, descriptive way.” (Carla Sánchez Aguilar, Computing Reviews, April, 2016)

“The book contains exercises and advanced exercises, along with relevant references, and comes with support materials for instructors ... making it useful for teaching courses on computer security. ... The exercises and projects are helpful for teaching. ... I believe the third edition will continue to receive praise from students, researchers, and practitioners. I strongly recommend it.” (S. V. Nagaraj, Computing Reviews, August, 2015)

### From the Back Cover

This important text/reference presents a comprehensive guide to the field of computing and information security and assurance. The book takes a broad view of computer network security, encompassing online social networks, and wireless and mobile systems.

This fully updated new edition explores the security issues, vulnerabilities and dangers encountered by the users of modern computing and communication devices, highlighting the need to develop improved algorithms, protocols, and best practices to enhance the security of public, private and enterprise systems alike.

### **Topics and features:**

- Introduces the fundamentals of traditional computer networks, the security threats they face, and the best practices currently in use
- Discusses the security challenges introduced by virtualization software, cloud computing and mobile systems
- Examines the security quagmire presented by the home computing environment and the growing number of home hotspots (**NEW**)
- Raises important legislative, legal, social, technical and ethical security issues, including the tension between the needs of individual privacy and collective security
- Provides both quickly workable and more thought-provoking exercises at the end of each chapter, with one chapter devoted entirely to lab exercises
- Supplies additional support material for instructors at an associated website, including laboratory exercises and projects, answers to selected exercises, and course slides

This unique work is suitable as both a teaching and a reference tool for all those interested in learning about

security in the evolving computing ecosystem. Computer network and data security personnel and policy makers will also find the guide to be a useful and unique source of ideas.

#### About the Author

**Dr. Joseph Migga Kizza** is Head and Professor, Department of Computer Science and Engineering and past Director of the Center for Information Security and Assurance at the University of Tennessee at Chattanooga, TN, USA. Among his other publications is the successful Springer textbook *Ethical and Social Issues in the Information Age*.

#### Users Review

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easier to share. You can find a lot of personal references to get information example: internet, newspapers, book, and soon. You can see that now, a lot of publisher which print many kinds of book. Typically the book that recommended for you is Guide to Computer Network Security (Computer Communications and Networks) this reserve consist a lot of the information of the condition of this world now. This book was represented how do the world has grown up. The terminology styles that writer require to explain it is easy to understand. The writer made some investigation when he makes this book. That's why this book appropriate all of you.

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