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one volume introduction to computer security clearly explains core concepts terminology challenges technologies and skills covers today s latest attacks and countermeasures the perfect beginner s guide for anyone interested in a

computer security career dr chuck easttom brings together complete coverage of all basic concepts terminology and issues along with all the skills you need to get started drawing on 30 years of experience as a security instructor consultant and researcher easttom helps you take a proactive realistic approach to assessing threats and implementing countermeasures writing clearly and simply he addresses crucial issues that many introductory security books ignore while addressing the realities of a world where billions of new devices are internet connected this guide covers web attacks hacking spyware network defense security appliances vpns password use and much more its many tips and examples reflect new industry trends and the state of the art in both attacks and defense exercises projects and review questions in every chapter help you deepen your understanding and apply all you ve learned learn how to identify and prioritize potential threats to your network use basic networking knowledge to improve security get inside the minds of hackers so you can deter their attacks implement a proven layered approach to network security resist modern social engineering attacks defend against today s most common denial of service dos attacks halt viruses spyware worms trojans and other malware prevent problems arising from malfeasance or ignorance choose the best encryption methods for your organization compare security technologies including the latest security appliances implement security policies that will work in your environment scan your network for vulnerabilities evaluate potential security consultants master basic computer forensics and know what to do if you re attacked learn how cyberterrorism and information warfare are evolving

description the book has been written in such a way that the concepts are explained in detail givingadequate emphasis on examples to make clarity on the topic diagrams are given extensively throughout the text various questions are included that vary widely in type and difficulty to understand the text this text is user focused and has been highly updated including topics pictures and examples the book features the most current research findings in all aspects of

information security from successfully implementing technology change to understanding the human factors in its utilization these volumes address many of the core concepts and organizational applications implications of information technology in organizations key features a comprehensive coverage of various aspects of cyber security concepts a simple language crystal clear approach straight forward comprehensible presentation a adopting user friendly classroom lecture style a the concepts are duly supported by several examples a previous years question papers are also included a the important set of questions comprising of more than 90 questions with short answers are also included table of contents chapter 1 introduction to information systems chapter 2 information security chapter 3 application security chapter 4 security threats chapter 5 development of secure information system chapter 6 security issues in hardware chapter 7 security policies chapter 8 information security standards

cybersecurity fundamentals a real world perspective explains detailed concepts within computer networks and computer security in an easy to understand way making it the perfect introduction to the topic this book covers fundamental issues using practical examples and real world applications to give readers a rounded understanding of the subject and how it is applied the first three chapters provide a deeper perspective on computer networks cybersecurity and different types of cyberattacks that hackers choose to unleash on cyber environments it then goes on to cover the types of major computer malware and cybersecurity attacks that shook the cyber world in the recent years detailing the attacks and analyzing their impact on the global economy the details of the malware codes that help the hacker initiate the hacking attacks on networks are fully described it then covers high tech cybersecurity programs devices and mechanisms that are extensively adopted in modern security systems examples of those systems include intrusion detection systems ids intrusion prevention systems ips and security firewalls it demonstrates how modern technologies can be used to create and manage

passwords for secure data this book also covers aspects of wireless networks and their security mechanisms the details of the most commonly used wi fi routers are provided with step by step procedures to configure and secure them more efficiently test questions are included throughout the chapters to ensure comprehension of the material along with this book s step by step approach this will allow undergraduate students of cybersecurity network security and related disciplines to gain a quick grasp of the fundamental topics in the area no prior knowledge is needed to get the full benefit of this book

effective security rules and procedures do not exist for their own sake they are put in place to protect critical assets thereby supporting overall business objectives recognizing security as a business enabler is the first step in building a successful program information security fundamentals allows future security professionals to gain a solid understanding of the foundations of the field and the entire range of issues that practitioners must address this book enables students to understand the key elements that comprise a successful information security program and eventually apply these concepts to their own efforts the book examines the elements of computer security employee roles and responsibilities and common threats it examines the need for management controls policies and procedures and risk analysis and also presents a comprehensive list of tasks and objectives that make up a typical information protection program the volume discusses organizationwide policies and their documentation and legal and business requirements it explains policy format focusing on global topic specific and application specific policies following a review of asset classification the book explores access control the components of physical security and the foundations and processes of risk analysis and risk management information security fundamentals concludes by describing business continuity planning including preventive controls recovery strategies and ways to conduct a business impact analysis

you can get there whether you re already working and looking to expand your

skills in the computer networking and security field or setting out on a new career path network security fundamentals will help you get there easy to read practical and up to date this text not only helps you learn network security techniques at your own pace it helps you master the core competencies and skills you need to succeed with this book you will be able to understand basic terminology and concepts related to security utilize cryptography authentication authorization and access control to increase your windows unix or linux network s security recognize and protect your network against viruses worms spyware and other types of malware set up recovery and fault tolerance procedures to plan for the worst and to help recover if disaster strikes detect intrusions and use forensic analysis to investigate the nature of the attacks network security fundamentals is ideal for both traditional and online courses the accompanying network security fundamentals project manual isbn 978 0 470 12798 8 is also available to help reinforce your skills wiley pathways helps you achieve your goals the texts and project manuals in this series offer a coordinated curriculum for learning information technology learn more at wiley.com/go/pathways

an introduction to the world of network security this work shows readers how to learn the basics including cryptography security policies and secure network design

the first book to introduce computer architecture for security and provide the tools to implement secure computer systems this book provides the fundamentals of computer architecture for security it covers a wide range of computer hardware system software and data concepts from a security perspective it is essential for computer science and security professionals to understand both hardware and software security solutions to survive in the workplace examination of memory cpu architecture and system implementation discussion of computer buses and a dual port bus interface examples cover a board spectrum of hardware and software systems design

and implementation of a patent pending secure computer system includes the latest patent pending technologies in architecture security placement of computers in a security fulfilled network environment co authored by the inventor of the modern computed tomography ct scanner provides website for lecture notes security tools and latest updates

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reflecting the latest developments from the information security field best selling security guide to network security fundamentals international edition provides the most current coverage available while thoroughly preparing readers for the comptia security syo 301 certification exam its comprehensive introduction to practical network and computer security covers all of the the new comptia security exam objectives cutting edge coverage of the new edition includes virtualization mobile devices and other trends as well as new topics such as psychological approaches to social engineering attacks application attacks penetration testing data loss prevention cloud computing

security and application programming development security

linux security fundamentals provides basic foundational concepts of securing a linux environment the focus is the digital self defense of an individual user this includes a general understanding of major threats against individual computing systems networks services and identity as well as approaches to prevent and mitigate them this book is useful for anyone considering a career as a linux administrator or for those administrators who need to learn more about linux security issues topics include security concepts encryption node device and storage security network and service security identity and privacy readers will also have access to sybex s superior online interactive learning environment and test bank including chapter tests a practice exam electronic flashcards a glossary of key terms

to deal with security issues effectively knowledge of theories alone is not sufficient practical experience is essential helpful for beginners and industry practitioners this book develops a concrete outlook providing readers with basic concepts and an awareness of industry standards and best practices chapters address cryptography and network security system level security and applications for network security the book also examines application level attacks practical software security and securing application specific networks ganguly debashis speaks about network and application security

internet of things iot security deals with safeguarding the devices and communications of iot systems by implementing protective measures and avoiding procedures which can lead to intrusions and attacks however security was never the prime focus during the development of the iot hence vendors have sold iot solutions without thorough preventive measures the idea of incorporating networking appliances in iot systems is relatively new and hence iot security has not always been considered in the product design to improve security an iot device that needs to be directly accessible over the internet should be segmented into its own network and have general network access

restricted the network segment should be monitored to identify potential anomalous traffic and action should be taken if a problem arises this has generated an altogether new area of research which seeks possible solutions for securing the devices and communication amongst them

as part of the syngress basics series the basics of information security provides you with fundamental knowledge of information security in both theoretical and practical aspects author jason andress gives you the basic knowledge needed to understand the key concepts of confidentiality integrity and availability and then dives into practical applications of these ideas in the areas of operational physical network application and operating system security the basics of information security gives you clear non technical explanations of how infosec works and how to apply these principles whether you re in the it field or want to understand how it affects your career and business the new second edition has been updated for the latest trends and threats including new material on many infosec subjects learn about information security without wading through a huge textbook covers both theoretical and practical aspects of information security provides a broad view of the information security field in a concise manner all new second edition updated for the latest information security trends and threats including material on incident response social engineering security awareness risk management and legal regulatory issues

students who are beginning studies in technology need a strong foundation in the basics before moving on to more advanced technology courses and certification programs the microsoft technology associate mta is a new and innovative certification track designed to provide a pathway for future success in technology courses and careers the mta program curriculum helps instructors teach and validate fundamental technology concepts and provides students with a foundation for their careers as well as the confidence they need to succeed in advanced studies through the use of moac mta titles you

can help ensure your students future success in and out of the classroom vital fundamentals of security are included such as understanding security layers authentication authorization and accounting they will also become familiar with security policies network security and protecting the server and client

if you want to become a cybersecurity professional this book is for you it security jobs are on the rise small medium or large size companies are always on the look out to get on board bright individuals to provide their services for business as usual bau tasks or deploying new as well as on going company projects most of these jobs requiring you to be on site but since 2020 companies are willing to negotiate with you if you want to work from home wfh yet to pass the job interview you must have experience still if you think about it all current it security professionals at some point had no experience whatsoever the question is how did they get the job with no experience well the answer is simpler then you think all you have to do is convince the hiring manager that you are keen to learn and adopt new technologies and you have willingness to continuously research on the latest upcoming methods and techniques revolving around it security here is where this book comes into the picture why well if you want to become an it security professional this book is for you if you are studying for comptia security or cissp this book will help you pass your exam passing security exams isn t easy in fact due to the raising security beaches around the world both above mentioned exams are becoming more and more difficult to pass whether you want to become an infrastructure engineer it security analyst or any other cybersecurity professional this book as well as the other books in this series will certainly help you get there buy this book now and get started today in this book you will discover baseline configuration diagrams ip management data sovereignty data loss prevention data masking tokenization digital rights management geographical considerations cloud access security broker secure protocols ssl inspection hashing api gateways recovery sites honeypots fake telemetry dns sinkhole cloud storage and cloud computing iaas paas saas managed service providers

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