INTRODUCTION TO
NETWORK SECURITY
THEORY AND PRACTICE

JIE WANG · ZACHARY KISSEL

Jie Wang and

Introduction to Network Security: Theory and Practice

Introductory textbook in the essential area of network security for undergraduate and graduate studentsComprehensively covers fundamental principles with newer topics such as electronic money, bit-coin, P2P, SHA-3, E-voting, and Zigbee securityFully updated to reflect fresh advancements in network securityIntroduces a chapter on Cloud security, a very popular and essential topicUses everyday examples that a lot of computer users experience to illustrate important concepts and mechanismsFeatures a companion site with Powerpoint slides for lectures and solution manuals to decided on exercise problems, available at http://www.edu/~wang/NetSecuml.cs.

Low quality, better alternatives available. Understanding Cryptography (Paar, Pelzl), Cryptography and Network Security (Stallings) and Applied Cryptography (Schneier) are good alternatives covering same/identical topics. Usually do not buy, rent or read it even if it is available for free. A discouraging foray into security A lot of the material, especially from the offensive security perspective, is naive at very best. Save money and time.The cryptography portion of the book is incomprehensible (in comparison with the other better books in the above list). The Network Security area of the book is very scant with actual details of how protocols provide security. The chapter on cloud security is incoherent with small content dealing on real cloud security and even more on simple cloud terminology/definitions. Most topics are two or three sentences in length. For students exploring protection for the very first time, please dig deeper than this. There are much better books that provide basic introduction to protection (first fifty percent of the publication) and Network Protection (second fifty percent of the book). Specifically lacking will be the chapters in the back half, including Cloud Protection and Malware/Worms. The description of software exploitation in the first chapter is usually

downright incorrect, defying basic os's knowledge (no, local variables are not allocated on the heap). Wikipedia would probably provide more useful info.

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