



Sean Murphy & Rachel Player

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Sean Murphy, Rachel Player



Cryptography A Very Short Introduction:

Cryptography Sean Murphy, Rachel Player, 2025-01-28 Cryptography is a part of everyday life for almost all of us though we may not realise we are using it. We are far from the historical prediction that cryptography would only be used by militaries and governments. With vast quantities of sensitive information transferred online by individuals, companies, organizations and nation states, cryptography is increasingly important to everyone and most of us often without realising we use it daily. *Cryptography A Very Short Introduction* demystifies the art of cryptography by tracing its historical use, explaining how it works and providing examples of its practical use. These include online shopping, chip and PIN bank cards and communicating via mobile phone. While many of these uses have been mainstream for some time now, the development and deployment of cryptography has changed enormously in the last twenty years. In this second edition, Sean Murphy and Rachel Player highlight the important advances in both academic cryptography research and its everyday use. Using non-technical language and without assuming advanced mathematical knowledge, they introduce symmetric and public key cryptography and provide a detailed discussion of the design of cryptographic algorithms that are secure against quantum computers and the development of cryptographic algorithms with advanced functionalities. They also consider the new applications of cryptography such as blockchain, secure messaging apps and electronic voting.

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White, Ethan Banks, 2017-12-06 *Master Modern Networking by Understanding and Solving Real Problems* Computer Networking Problems and Solutions offers a new approach to understanding networking that not only illuminates current systems but prepares readers for whatever comes next Its problem solving approach reveals why modern computer networks and protocols are designed as they are by explaining the problems any protocol or system must overcome considering common solutions and showing how those solutions have been implemented in new and mature protocols Part I considers data transport the data plane Part II covers protocols used to discover and use topology and reachability information the control plane Part III considers several common network designs and architectures including data center fabrics MPLS cores and modern Software Defined Wide Area Networks SD WAN Principles that underlie technologies such as Software Defined Networks SDNs are considered throughout as solutions to problems faced by all networking technologies This guide is ideal for beginning network engineers students of computer networking and experienced engineers seeking a deeper understanding of the technologies they use every day Whatever your background this book will help you quickly recognize problems and solutions that constantly recur and apply this knowledge to new technologies and environments Coverage Includes Data and networking transport Lower and higher level transports and interlayer discovery Packet switching Quality of Service QoS Virtualized networks and services Network topology discovery Unicast loop free routing Reacting to topology changes Distance vector control planes link state and path vector control Control plane policies and centralization Failure domains Securing networks and transport Network design patterns Redundancy and resiliency Troubleshooting Network disaggregation Automating network management Cloud computing Networking the Internet of Things IoT Emerging trends and technologies *Cyber Security Foundations* Keith Martin, Konstantinos Mersinas, Guido Schmitz, Jassim

Happa, 2025-03-03 *Cyber Security Foundations* introduces the core topics that all cyber security students and future professionals need to understand the cyber security landscape It is a key textbook for postgraduate and undergraduate students taking modules related to cyber security and information security as well as for general readers seeking to deepen their understanding of technical and human centred digital security concepts Features include Chapters on core areas such as cryptography computer security cyber security management cybercrime and privacy informed by the CyBOK knowledge areas Demonstration of how the many facets of the discipline interrelate allowing readers to gain a comprehensive understanding of the cyber security landscape Real world examples to illustrate the application of ideas Learning outcomes and activities to help reinforce learning and exploration beyond the core text and a glossary to equip readers with the language necessary to make sense of each topic *The Publishers Weekly*, 2006 **Talking Book Topics**, 2017-07

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fascinating nation It examines what the term modern means to the Japanese debunks the notion that Japan went through a period of total isolation from the world and explores the continuity between pre and post war Japan

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