



Fred Piper & Sean Murphy

CRYPTOGRAPHY

A Very Short Introduction

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Cryptography A Very Short Introduction

Alexander W. Dent, Chris J. Mitchell



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 a far cry 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 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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