

August 2024

## Computing:

An online reading list from the IET Library



These eBooks and eJournals, available via the [IET Library](#), have been selected on the subject of computing. They cover topics such as coding and programming, cyber security, and mathematics and methodologies.



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# Contents

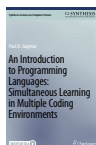
## eBooks

- [Coding and programming](#)
- [Cyber security](#)
- [Mathematics and methodologies](#)
- [Networks](#)

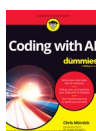
## eJournals

## eBooks

### Coding and programming



**[An Introduction to Programming Languages: Simultaneous Learning in Multiple Coding Environments, Paul A. Gagniuc. \(2023\).](#)** Based on the growing need for programmers to be proficient across languages, the book is designed so no prior training of programming languages is needed by the reader.



**[Coding with AI For Dummies, Chris Minnick. \(2024\).](#)** Boost your coding output and accuracy with this book which introduces you to the many ways that artificial intelligence can make your life as a coder easier.



**[Expert C++ : Become a Proficient Programmer by Learning Coding Best Practices with C++17 and C++20's Latest Features, Marcelo Guerra Hahn et al. \(2023\).](#)** If you're an aspiring software engineer or computer science student, you'll be able to master advanced C++ programming techniques through real-world applications.



**[HTML, CSS, & JavaScript All-in-One For Dummies, Paul McFedries. \(2023\).](#)** A thorough and helpful reference for aspiring website builders looking to start a new career in front-end web building and design



**[Programming for Absolute Beginners : Using the JavaScript Programming Language, Jonathan Bartlett. \(2023\).](#)** This book does not just teach the basics of programming, but also all the tools that new programmers need to get started, including the basics of making web pages.

### Cyber security



**[Cyber Threat Intelligence, Martin Lee. \(2023\).](#)** This book takes a systematic, system-agnostic, and holistic view to generating, collecting, and applying threat intelligence, with detailed case studies.

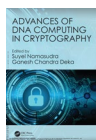


**[What Every Engineer Should Know About Cyber Security and Digital Forensics, Joanna F. DeFranco and Bob Maley. \(2023\).](#)** An overview of the field of cyber security, this updated edition addresses the most recent cyber security concerns and introduces new topics such as business changes and outsourcing.



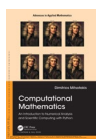
**[Strategic Cyber Security Management, Peter Trim and Yang-Im Lee. \(2023\).](#)** These textbook places cyber security management within an organizational and strategic framework, enabling students to develop their knowledge and skills for a future career.

## Mathematics and methodologies

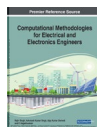


### Advances of DNA Computing in Cryptography, Suyel Namasudra and Ganesh Chandra Deka. (2019).

This book discusses the current technologies of cryptography using DNA computing. It provides a mix of concepts, solved examples and real life case studies.



Computational Mathematics : An Introduction to Numerical Analysis and Scientific Computing with Python, Dimitrios Mitsotakis. (2023). This textbook is a comprehensive introduction to computational mathematics and scientific computing suitable for undergraduate and postgraduate courses.



### Computational Methodologies for Electrical and Electronics Engineers, Rajiv Singh et al. (2021).

Featuring research on a wide range of topics such as artificial neural networks, smart grids, and soft computing, this book is ideally designed for programmers, engineers, and technicians.



### Quantum Computing Algorithms : Discover How a Little Math Goes a Long Way, Barry Burd. (2023).

Whether you've dabbled in introductory quantum computing material or are seeking deeper insights, this quantum computing book is your gateway to in-depth exploration.

## Networks



Cloud Computing For Dummies, Judith S. Hurwitz, and Daniel Kirsch. (2019). This book demystifies the Cloud's virtual landscape, breaking up a complex and multi-layered topic into simple explanations.



Future Fixed and Mobile Broadband Internet, Clouds, and IoT/AI, Toni Janevski. (2024). This book is a highly comprehensive resource that provides full coverage of existing and future fixed and mobile broadband networks, internet, telecom, and OTT services.



Software Defined-WAN for the Digital Age: A Bold Transition to Next Generation Networking, David Wang. (2019). This book considers how an advanced networking approach can maintain the performance and security of real-time and sensitive applications.



Software Networks : Virtualization, SDN, 5G, and Security, Guy Pujolle. (2020). This book provides an overview of software networks with a focus on future applications and developments, as well as security considerations.

## eJournals

Distributed Computing. (Covers novel architectures of distributed systems and computer networks, communication protocols and hierarchies, verification of distributed systems.)

New Generation Computing. (Publishes works relevant to the fields of programming, distributed and parallel computing, knowledge-based systems, and emergent systems.)

Computing. (Presents the latest research results from computer science and numerical computation.)

IET Computers & Digital Techniques. Publishes technical papers describing recent research and developments in all aspects of digital system-on-chip design and test of electronic and embedded systems.)

IET Computer Vision. (This journal introduces new horizons and sets the agenda for future avenues of research in a wide range of areas of computer vision.)