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Reconfigurable Cryptographic Processor Leibo Liu, Bo Wang, Shaojun Wei, 2018-05-16 This book focuses on the design methods for reconfigurable computing processors for cryptographic algorithms. It covers the dynamic reconfiguration, analysis of cryptographic algorithms, hardware architecture design, and compilation techniques for reconfigurable cryptographic processors and also presents a case study of implementing the reconfigurable cryptographic processor Anole designed by the authors' team. Moreover, it features discussions on countermeasures against physical attacks utilizing partially and dynamically reconfigurable array architecture to enhance security, as well as the latest trends for reconfigurable cryptographic processors. This book is intended for research scientists, graduate students, and engineers in electronic science and technology, cryptography, network and information security, as well as computer science and technology.

Cybersecurity Henrique M. D. Santos, 2022-04-27 *Cybersecurity: A Practical Engineering Approach* introduces the implementation of a secure cyber architecture beginning with the identification of security risks. It then builds solutions to mitigate risks by considering the technological justification of the solutions, as well as their efficiency. The process follows an engineering process model. Each module builds on a subset of the risks, discussing the knowledge necessary to approach a solution, followed by the security control architecture design and the implementation. The modular approach allows students to focus on more manageable problems, making the learning process simpler and more attractive.

Functional Encryption Khairul Amali Bin Ahmad, Khaleel Ahmad, Uma N. Dulhare, 2021-06-12 This book provides awareness of methods used for functional encryption in the academic and professional communities. The book covers functional encryption algorithms and its modern applications in developing secure systems via entity authentication, message authentication, software security, cyber security, hardware security, Internet of Things (IoT), cloud security, smart card technology, CAPTCHA, digital signature, and digital watermarking. This book is organized into fifteen chapters. Topics include foundations of functional encryption, impact of group theory in

cryptosystems elliptic curve cryptography XTR algorithm pairing based cryptography NTRU algorithms ring units cocks IBE schemes Boneh Franklin IBE Sakai Kasahara IBE hierarchical identity based encryption attribute based Encryption extensions of IBE and related primitives and digital signatures Explains the latest functional encryption algorithms in a simple way with examples Includes applications of functional encryption in information security application security and network security Relevant to academics research scholars software developers etc

Introduction to Privacy Enhancing Technologies Carlisle Adams,2021-10-30 This textbook provides a unique lens through which the myriad of existing Privacy Enhancing Technologies PETs can be easily comprehended and appreciated It answers key privacy centered questions with clear and detailed explanations Why is privacy important How and why is your privacy being eroded and what risks can this pose for you What are some tools for protecting your privacy in online environments How can these tools be understood compared and evaluated What steps can you take to gain more control over your personal data This book addresses the above questions by focusing on three fundamental elements It introduces a simple classification of PETs that allows their similarities and differences to be highlighted and analyzed It describes several specific PETs in each class including both foundational technologies and important recent additions to the field It explains how to use this classification to determine which privacy goals are actually achievable in a given real world environment Once the goals are known this allows the most appropriate PETs to be selected in order to add the desired privacy protection to the target environment To illustrate the book examines the use of PETs in conjunction with various security technologies with the legal infrastructure and with communication and computing technologies such as Software Defined Networking SDN and Machine Learning ML Designed as an introductory textbook on PETs this book is essential reading for graduate level students in computer science and related fields prospective PETs researchers privacy advocates and anyone interested in technologies to protect privacy in online environments

Handbook of Research on Democratic Strategies and Citizen-Centered E-Government Services Dolićanin, Ćemal,Kajan, Ejub,Randjelović, Dragan,Stojanović, Boban,2014-11-30 Over the past few years e government has been rapidly changing the way governmental services are provided to citizens and businesses These services improve business and government exchange capability provide a new way to discover and share information and play a part in the evolution of future technologies The Handbook of Research on Democratic Strategies and Citizen Centered E Government Services seeks to address which services in e government should be provided to users and how This premier reference work gives an overview of the latest achievements in the field of e government services provides in depth analysis of and research on the development and deployment of cutting edge applications and provides insight into future trends for researchers teachers students government workers and IT professionals

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