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Titolo	Introduction to cryptography with open-source software // by Alasdair McAndrew
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Edizione	[1st edition]
Descrizione fisica	1 online resource (456 p.)
Collana	Discrete Mathematics and Its Applications A Chapman & Hall Book
Disciplina	005.8/2
Soggetti	Computer security Cryptography - Mathematics Data encryption (Computer science) Open source software Electronic books.
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Contents; Preface; Chapter 1. Introduction to cryptography; Chapter 2. Basic number theory; Chapter 3. Classical cryptosystems; Chapter 4. Introduction to information theory; Chapter 5. Public-key cryptosystems based on factoring; Chapter 6. Public-key cryptosystems based on logarithms and knapsacks; Chapter 7. Digital signatures; Chapter 8. Block ciphers and the data encryption standard; Chapter 9. Finite fields; Chapter 10. The Advanced Encryption Standard; Chapter 11. Hash functions; Chapter 12. Elliptic curves and cryptosystems; Chapter 13. Random numbers and stream ciphers Chapter 14. Advanced applications and protocols Appendix A. Introduction to Sage; Appendix B. Advanced computational number theory; Bibliography; Back Cover
Sommario/riassunto	Once the privilege of a secret few, cryptography is now taught at universities around the world. Introduction to Cryptography with Open-Source Software illustrates algorithms and cryptosystems using examples and the open-source computer algebra system of Sage. The author, a noted educator in the field, provides a highly practical

learning experience by progressing at a gentle pace, keeping mathematics at a manageable level, and including numerous end-of-chapter exercises.

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