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mathematics to encrypt and decrypt data. Cryptography enables you to store sensitive information or transmit it across insecure networks (like the Internet) so that it cannot be read by anyone except the intended recipient.

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The solution is  $s \equiv 72729 \pmod{87037}$ .

Adding on multiples of  $(p - 1)/4 = 87037$

yields the four solutions  $s \equiv 72729,$

$159766, 246803, 333840 \pmod{348148}$  to

the original congruence. We can pick out

which solution is correct from the relation

$g^s \equiv v \pmod{p}$ , i.e., the correct value of  $s$

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should satisfy  $113459s \equiv 185149$ .

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an introductory-level treatment of cryptography written from a modern, computer science perspective. It is unique in its blend of theory and practice, covering standardized cryptosystems widely used in practice without sacrificing rigor or an emphasis on foundations. It is intended to be used as a textbook in

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development in ancient times to the present day, Introduction to Cryptography with Mathematical Foundations and Computer Implementations provides a focused tour of the central concepts of cryptography. Rather than present an encyclopedic treatment of topics in cryptography, it delineates cryptographic

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concepts in chronological order,  
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Build a cipher wheel as illustrated in Figure 1.1, but with an inner wheel that rotates, and use it to complete the following tasks.

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Extensively revised and updated, the 3rd Edition of Introduction to Cryptography with Coding Theory mixes applied and theoretical aspects to build a solid foundation in cryptography and security. The authors' lively, conversational tone and practical focus informs a broad coverage of topics from a mathematical

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Overview. Modern cryptography studies techniques for facilitating interactions between distrustful entities. Today, with the advent of the Internet, these techniques

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become indispensable  $\square$ enabling, for instance, anonymous electronic elections, privacy-preserving electronic auctions, internet banking and more.

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cryptography. In general, cryptography aims to construct efficient schemes achieving some desired functionality, even in an adversarial environment. For example, the most basic question in cryptography is that of secure communication across an insecure channel: Can Alice send a message to



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Cryptography is now ubiquitous □ moving

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beyond the traditional environments, such as government communications and banking systems, we see cryptographic techniques realized in Web browsers, e-mail programs, cell phones, manufacturing systems, embedded software, smart buildings, cars, and even medical implants. Today's designers need a

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comprehensive understanding of applied cryptography. After an introduction to cryptography and data security, the authors explain the main techniques in modern cryptography, with chapters addressing stream ciphers, the Data Encryption Standard (DES) and 3DES, the Advanced Encryption Standard (AES),

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block ciphers, the RSA cryptosystem, public-key cryptosystems based on the discrete logarithm problem, elliptic-curve cryptography (ECC), digital signatures, hash functions, Message Authentication Codes (MACs), and methods for key establishment, including certificates and public-key infrastructure (PKI).

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Throughout the book, the authors focus on communicating the essentials and keeping the mathematics to a minimum, and they move quickly from explaining the foundations to describing practical implementations, including recent topics such as lightweight ciphers for RFIDs and mobile devices, and current key-length

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recommendations. The authors have considerable experience teaching applied cryptography to engineering and computer science students and to professionals, and they make extensive use of examples, problems, and chapter reviews, while the book's website offers slides, projects and links to further resources. This is a suitable



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textbook for graduate and advanced undergraduate courses and also for self-study by engineers.

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Continuing a bestselling tradition, An

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