



Beginning **Cryptography** with Java™

David Hook



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Beginning Cryptography With Java Pb2005

CH Cherryholmes



Beginning Cryptography With Java Pb2005:

Beginning Cryptography with Java David Hook, 2007-03-31 Beginning Cryptography with Java While cryptography can still be a controversial topic in the programming community Java has weathered that storm and provides a rich set of APIs that allow you the developer to effectively include cryptography in applications if you know how This book teaches you how Chapters one through five cover the architecture of the JCE and JCA symmetric and asymmetric key encryption in Java message authentication codes and how to create Java implementations with the API provided by the Bouncy Castle ASN 1 packages all with plenty of examples Building on that foundation the second half of the book takes you into higher level topics enabling you to create and implement secure Java applications and make use of standard protocols such as CMS SSL and S MIME What you will learn from this book How to understand and use JCE JCA and the JSSE for encryption and authentication The ways in which padding mechanisms work in ciphers and how to spot and fix typical errors An understanding of how authentication mechanisms are implemented in Java and why they are used Methods for describing cryptographic objects with ASN 1 How to create certificate revocation lists and use the Online Certificate Status Protocol OCSP Real world Web solutions using Bouncy Castle APIs Who this book is for This book is for Java developers who want to use cryptography in their applications or to understand how cryptography is being used in Java applications Knowledge of the Java language is necessary but you need not be familiar with any of the APIs discussed Wrox Beginning guides are crafted to make learning programming languages and technologies easier than you think providing a structured tutorial format that will guide you through all the techniques involved **Beginning Cryptography with Java**TM, 2005 *Cryptography for Internet and Database Applications* Nick Galbreath, 2003-02-03 Cryptography is the gold standard for security It is used to protect the transmission and storage of data between two parties by encrypting it into an unreadable format Cryptography has enabled the first wave of secure transmissions which has helped fuel the growth of transactions like shopping banking and finance over the world's biggest public network the Internet Many Internet applications such as e mail databases and browsers store a tremendous amount of personal and financial information but frequently the data is left unprotected Traditional network security is frequently less effective at preventing hackers from accessing this data For instance once private databases are now completely exposed on the Internet It turns out that getting to the database that holds millions of credit card numbers the transmission is secure through the use of cryptography but the database itself isn't fueling the rise of credit card information theft A paradigm shift is now under way for cryptography The only way to make data secure in any application that runs over the Internet is to use secret also known as private key cryptography The current security methods focus on securing Internet applications using public keys techniques that are no longer effective In this groundbreaking book noted security expert Nick Galbreath provides specific implementation guidelines and code examples to secure database and Web based applications to prevent theft of sensitive information from

hackers and internal misuse Java Cryptography Jonathan Knudsen,1998-05 Java Cryptography teaches you how to write secure programs using Java s cryptographic tools It thoroughly discusses the Java security package and the Java Cryptography Extensions JCE showing you how to use security providers and even how to implement your own provider If you work with sensitive data you ll find this book indispensable Java Cryptography Extensions Jason R. Weiss,2004-05-18 For a long time there has been a need for a practical down to earth developers book for the Java Cryptography Extension I am very happy to see there is now a book that can answer many of the technical questions that developers managers and researchers have about such a critical topic I am sure that this book will contribute greatly to the success of securing Java applications and deployments for e business Anthony Nadalin Java Security Lead Architect IBM For many Java developers and software engineers cryptography is an on demand programming exercise where cryptographic concepts are shelved until the next project requires renewed focus But considerations for cryptography must be made early on in the design process and it s imperative that developers know what kinds of solutions exist One of Java s solutions to help bridge the gap between academic research and real world problem solving comes in the form of a well defined architecture for implementing cryptographic solutions However to use the architecture and its extensions it is important to recognize the pros and cons of different cryptographic algorithms and to know how to implement various devices like key agreements digital signatures and message digests to name a few In Java Cryptography Extensions JCE cryptography is discussed at the level that developers need to know to work with the JCE and with their own applications but that doesn t overwhelm by packing in details unimportant to the busy professional The JCE is explored using numerous code examples and instructional detail with clearly presented sections on each aspect of the Java library An online open source cryptography toolkit and the code for all of the examples further reinforces the concepts covered within the book No other resource presents so concisely or effectively the exact material needed to begin utilizing the JCE Written by a seasoned veteran of both cryptography and server side programming Covers the architecture of the JCE symmetric ciphers asymmetric ciphers message digests message authentication codes digital signatures and managing keys and certificates Cryptography for Internet and Database Applications Galbreath,2002-10-01 **Learn Java Cryptography** Frank Moley,2018 *Introduction to Cryptography with Java Applets* David Bishop,2003 Networking Security *Applied Java Cryptography* Merlin Hughes,Conrad Hughes,1998-12-01 Cryptography the science of secret writing is the most important security tool in the application programmer s arsenal This extremely in depth and detailed discussion explores Java Cryptography Architecture JCA 1.1 and Java Cryptography Extensions JCE 1.1 *Cryptography and Security in Java* Joel Fan,2002-12-01 Helps managers and developers to understand Java as a platform for creating security enabled applications

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