Elliptic-Curve Cryptography

Part 1

Elliptic Curve Cryptography Matlab Manual

Vivian Siahaan,Rismon Hasiholan Sianipar

Elliptic Curve Cryptography Matlab Manual:

The Fast Tutorial to Learn Database Programming Using Python GUI with Access and SQL Server Vivian Siahaan,Rismon Hasiholan Sianipar,2020-01-15 This book covers microsoft acces and SQL Server based GUI programming using pyqt Intentionally designed for various levels of interest and ability of learners this book is suitable for students engineers and even researchers in a variety of disciplines No advanced programming experience is needed and only a few school level programming skill are needed In the first chapter you will learn to use several widgets in PyQt5 Display a welcome message Use the Radio Button widget Grouping radio buttons Displays options in the form of a check box and Display two groups of check boxes In chapter two you will learn to use the following topics Using Signal Slot Editor Copy and place text from one Line Edit widget to another Convert data types and make a simple calculator Use the Spin Box widget Use scrollbars and sliders Using the Widget List Select a number of list items from one Widget List and display them on another Widget List widget Add items to the Widget List Perform operations on the Widget List Use the Combo Box widget Displays data selected by the user from the Calendar Widget Creating a hotel reservation application and Display tabular data using Table Widgets In third chapter you will learn How to create the initial three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In fourth chapter you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In chapter five you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables In chapter six you will create dan configure database In this chapter you will create Suspect table in crime database This table has eleven columns suspect_id primary key suspect_name birth_date case_date report_date suspect_ status arrest_date mother_name address telephone and photo You will also create GUI to display edit insert and delete for this table In chapter seven you will create a table with the name Feature_Extraction which has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 The six fields except keys will have VARBINARY MAX data type You will also create GUI to display edit insert and delete for this table In chapter eight you will create two tables Police and Investigator The Police table has six columns police_id primary key province city address telephone and photo The Investigator table has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo You will also create GUI to display edit insert and delete for both tables In the last chapter you will create two tables Victim and Case_File The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The Case_File table has seven columns case_file_id primary key suspect_id foreign key police_id foreign key investigator_id foreign key victim_id foreign key status and description You will

create GUI to display edit insert and delete for both tables as well **PART 1 - 3: STEP BY STEP TUTORIAL: JAVA/MYSQL With Object-Oriented Programming Using Apache NetBeans IDE** Vivian Siahaan,Rismon Hasiholan Sianipar,2023-02-11 PART 1 This book uses six tables in the Sakila sample database which is a fictitious database designed to represent a DVD rental store The database consists of 15 tables including film film_category actor customer rental payment and inventory among others The Sakila sample database is intended to provide a standard schema that can be used for examples in books tutorials articles samples and so forth In this book as part 1 you will develop step by step tutorial object oriented programming and Java GUI using NetBeans to implement the first six tables in sakila database actor language film category film_category and film_actor tables PART 2 The sakila database consists of 15 tables including film film_category actor customer rental payment and inventory among others The sakila sample database which is a fictitious database designed to represent a DVD rental store is intended to provide a standard schema that can be used for examples in books tutorials articles samples and so forth Our previous book part 1 implements the first six tables in sakila database actor language film category film_category and film_actor tables This book as second part uses five tables in the sakila sample database country city address store and staff tables PART 3 Our books part 1 and part 2 had been published implementing the first eleven tables in sakila database actor language film category film_category film_actor country city address store and staff tables This book as part 3 develops step by step object oriented programming and Java GUI tutorial using NetBeans to implement the remaining four tables customer inventory rental and payment in the Sakila sample database which is a fictitious database designed to represent a DVD rental store STEP BY STEP TUTORIAL: JAVA/MYSQL With Object-Oriented Programming Using Apache NetBeans IDE PART 2 Vivian Siahaan,Rismon Hasiholan Sianipar,2023-01-30 The sakila database consists of 15 tables including film film_category actor customer rental payment and inventory among others The sakila sample database which is a fictitious database designed to represent a DVD rental store is intended to provide a standard schema that can be used for examples in books tutorials articles samples and so forth Our previous book part 1 implements the first six tables in sakila database actor language film category film_category and film_actor tables This book as second part uses five tables in the sakila sample database country city address store and staff tables **STEP BY STEP TUTORIAL: Java/MySQL with Object-Oriented Programming Using Apache NetBeans IDE PART 1** Vivian Siahaan,Rismon Hasiholan Sianipar,2023-01-22 This book uses six tables in the Sakila sample database which is a fictitious database designed to represent a DVD rental store The database consists of 15 tables including film film_category actor customer rental payment and inventory among others The Sakila sample database is intended to provide a standard schema that can be used for examples in books tutorials articles samples and so forth In this book as part 1 you will develop step by step tutorial object oriented programming and Java GUI using NetBeans to implement the first six tables in sakila database actor language film category film_category and film_actor tables STEP BY STEP TUTORIAL: JAVA/MYSQL With

Object-Oriented Programming Using Apache NetBeans IDE PART 3 Vivian Siahaan,Rismon Hasiholan Sianipar,2023-02-08 The sakila database consists of 15 tables including film film_category actor customer rental payment and inventory among others The sakila sample database which is a fictitious database designed to represent a DVD rental store is intended to provide a standard schema that can be used for examples in books tutorials articles samples and so forth Our books part 1 and part 2 had been published implementing the first eleven tables in sakila database actor language film category film_category film_actor country city address store and staff tables This book as part 3 develops step by step object oriented programming and Java GUI tutorial using NetBeans to implement the remaining four tables customer inventory rental and payment in the Sakila sample database which is a fictitious database designed to represent a DVD rental store **The Best Tutorial to Learn Database Programming with Java GUI, MariaDB, and SQL Server** Vivian Siahaan,Rismon Hasiholan Sianipar,2020-01-08 This book explains relational theory in practice and demonstrates through two projects how you can apply it to your use of MariaDB and SQL Server databases This book covers the important requirements of teaching databases with a practical and progressive perspective This book offers the straightforward practical answers you need to help you do your job This hands on tutorial reference guide to MariaDB and SQL Server is not only perfect for students and beginners but it also works for experienced developers who aren t getting the most from MariaDB and SQL Server As you would expect this book shows how to build from scratch two different databases MariaDB and SQL Server using Java In designing a GUI and as an IDE you will make use of the NetBeans tool In chapter one you will learn the basics of cryptography using Java Here you will learn how to write a Java program to count Hash MAC Message Authentication Code store keys in a KeyStore generate PrivateKey and PublicKey encrypt decrypt data and generate and verify digital prints You will also learn how to create and store salt passwords and verify them In chapter two you will create a PostgreSQL database named Bank and its tables In chapter three you will create a Login table In this case you will see how to create a Java GUI using NetBeans to implement it In addition to the Login table in this chapter you will also create a Client table In the case of the Client table you will learn how to generate and save public and private keys into a database You will also learn how to encrypt decrypt data and save the results into a database In chapter four you will create an Account table This account table has the following ten fields account_id primary key client_id primarykey account_number account_date account_type plain_balance cipher_balance decipher_balance digital_signature and signature_verification In this case you will learn how to implement generating and verifying digital prints and storing the results into a database In chapter five you create a table named Client_Data which has seven columns client_data_id primary key account_id primary_key birth_date address mother_name telephone and photo_path In chapter six you will be taught how to create a SQL Server database named Crime and its tables In chapter seven you will be taught how to extract image features utilizing BufferedImage class in Java GUI In chapter eight you will be taught to create Java GUI to view edit insert and delete Suspect table data This table has eleven

columns suspect_id primary key suspect_name birth_date case_date report_date suspect_ status arrest_date mother_name address telephone and photo In chapter nine you will be taught to create Java GUI to view edit insert and delete Feature_Extraction table data This table has eight columns feature_id primary key suspect_id foreign key feature1 feature2 feature3 feature4 feature5 and feature6 In chapter ten you will add two tables Police_Station and Investigator These two tables will later be joined to Suspect table through another table File_Case which will be built in the seventh chapter The Police_Station has six columns police_station_id primary key location city province telephone and photo The Investigator has eight columns investigator_id primary key investigator_name rank birth_date gender address telephone and photo Here you will design a Java GUI to display edit fill and delete data in both tables In chapter eleven you will add two tables Victim and File_Case The File_Case table will connect four other tables Suspect Police_Station Investigator and Victim The Victim table has nine columns victim_id primary key victim_name crime_type birth_date crime_date gender address telephone and photo The File_Case has seven columns file_case_id primary key suspect_id foreign key police_station_id foreign key investigator_id foreign key victim_id foreign key status and description Here you will also design a Java GUI to display edit fill and delete data in both tables Finally this book is hopefully useful and can improve database programming skills for every Java MariaDB SQL Server programmer   **STEP BY STEP TUTORIAL: SQL SERVER FOR DATA SCIENCE WITH PYTHON GUI** Vivian Siahaan,Rismon Hasiholan Sianipar,2022-11-13 This book uses the SQL SERVER version of MySQL based Northwind database The Northwind database is a sample database that was originally created by Microsoft and used as the basis for their tutorials in a variety of database products for decades The Northwind database contains the sales data for a fictitious company called Northwind Traders which imports and exports specialty foods from around the world The Northwind database is an excellent tutorial schema for a small business ERP with customers orders inventory purchasing suppliers shipping employees and single entry accounting The Northwind database has since been ported to a variety of non Microsoft databases including SQL SERVER The Northwind dataset includes sample data for the following Suppliers Suppliers and vendors of Northwind Customers Customers who buy products from Northwind Employees Employee details of Northwind traders Products Product information Shippers The details of the shippers who ship the products from the traders to the end customers and Orders and Order_Details Sales Order transactions taking place between the customers the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by supplier top 10 sales by supplier bottom 10 sales by customer country top 10 sales by customer country bottom 10 sales by supplier country top 10 sales by supplier country average amount by month with mean and ewm average amount by every month amount feature over June 1997 amount feature over 1998 and all amount feature   **Step by Step Tutorial IMAGE CLASSIFICATION Using Scikit-Learn, Keras, And TensorFlow with PYTHON GUI** Vivian Siahaan,2023-06-21 In this book implement deep learning based image

classification on classifying monkey species recognizing rock paper and scissor and classify airplane car and ship using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify monkey species using 10 Monkey Species dataset provided by Kaggle https www kaggle com slothkong 10 monkey species download Here s an overview of the steps involved in classifying monkey species using the 10 Monkey Species dataset Dataset Preparation Download the 10 Monkey Species dataset from Kaggle and extract the files The dataset should consist of separate folders for each monkey species with corresponding images Load and Preprocess Images Use libraries such as OpenCV to load the images from the dataset Resize the images to a consistent size e g 224x224 pixels to ensure uniformity Split the Dataset Divide the dataset into training and testing sets Typically an 80 20 or 70 30 split is used where the larger portion is used for training and the smaller portion for testing the model s performance Label Encoding Encode the categorical labels monkey species into numeric form This step is necessary to train a machine learning model as most algorithms expect numerical inputs Feature Extraction Extract meaningful features from the images using techniques like deep learning or image processing algorithms This step helps in representing the images in a format that the machine learning model can understand Model Training Use libraries like TensorFlow and Keras to train a machine learning model on the preprocessed data Choose an appropriate model architecture in this case MobileNetV2 Model Evaluation Evaluate the trained model on the testing set to assess its performance Metrics like accuracy precision recall and F1 score can be used to evaluate the model s classification performance Predictions Use the trained model to make predictions on new unseen images Pass the images through the trained model and obtain the predicted labels for the monkey species In chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to recognize rock paper and scissor using dataset provided by Kaggle https www kaggle com sanikamal rock paper scissors dataset download Here s the outline of the steps Step 1 Dataset Preparation Download the rock paper scissors dataset from Kaggle by visiting the provided link and clicking on the Download button Save the dataset to a local directory on your machine Extract the downloaded dataset to a suitable location This will create a folder containing the images for rock paper and scissors Step 2 Data Preprocessing Import the required libraries TensorFlow Keras NumPy OpenCV and Pandas Load the dataset using OpenCV Iterate through the image files in the dataset directory and use OpenCV s cv2 imread function to load each image You can specify the image s file extension e g PNG and directory path Preprocess the images Resize the loaded images to a consistent size using OpenCV s cv2 resize function You may choose a specific width and height suitable for your model Prepare the labels Create a list or array to store the corresponding labels for each image rock paper or scissors This can be done based on the file naming convention or by mapping images to their respective labels using a dictionary Step 3 Model Training Create a convolutional neural network CNN model using Keras Define a CNN architecture using Keras Sequential model or functional API This

typically consists of convolutional layers pooling layers and dense layers Compile the model Specify the loss function e g categorical cross entropy and optimizer e g Adam using Keras compile function You can also define additional metrics to evaluate the model s performance Train the model Use Keras fit function to train the model on the preprocessed dataset Specify the training data labels batch size number of epochs and validation data if available This will optimize the model s weights based on the provided dataset Save the trained model Once the model training is complete you can save the trained model to disk using Keras save or save_weights function This allows you to load the model later for predictions or further training Step 4 Model Evaluation Evaluate the trained model Use Keras evaluate function to assess the model s performance on a separate testing dataset Provide the testing data and labels to calculate metrics such as accuracy precision recall and F1 score This will help you understand how well the model generalizes to new unseen data Analyze the model s performance Interpret the evaluation metrics and analyze any potential areas of improvement You can also visualize the confusion matrix or classification report to gain more insights into the model s predictions Step 5 Prediction Use the trained model for predictions Load the saved model using Keras load_model function Then pass new unseen images through the model to obtain predictions Preprocess these images in the same way as the training images resize normalize etc Visualize and interpret predictions Display the predicted labels alongside the corresponding images to see how well the model performs You can use libraries like Matplotlib or OpenCV to show the images and their predicted labels Additionally you can calculate the accuracy of the model s predictions on the new dataset In chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify airplane car and ship using Multiclass image dataset airplane car ship dataset provided by Kaggle https www kaggle com abtabm multiclassimagedatasetairplanecar Here are the outline steps Import the required libraries TensorFlow Keras Scikit Learn OpenCV Pandas NumPy Load and preprocess the dataset Read the images from the dataset folder Resize the images to a fixed size Store the images and corresponding labels Split the dataset into training and testing sets Split the data and labels into training and testing sets using a specified ratio Encode the labels Convert the categorical labels into numerical format Perform one hot encoding on the labels Build MobileNetV2 model using Keras Create a sequential model Add convolutional layers with activation functions Add pooling layers for downsampling Flatten the output and add dense layers Set the output layer with softmax activation Compile and train the model Compile the model with an optimizer and loss function Train the model using the training data and labels Specify the number of epochs and batch size Evaluate the model Evaluate the trained model using the testing data and labels Calculate the accuracy of the model Make predictions on new images Load and preprocess a new image Use the trained model to predict the label of the new image Convert the predicted label from numerical format to categorical

ELLIPTIC CURVE CRYPTOGRAPHY (ECC) KEY GENERATION, ENCRYPTION, DECRYPTION, AND DIGITAL SIGNATURES: LEARN BY EXAMPLES WITH PYTHON AND TKINTER Vivian Siahaan,Rismon Hasiholan

Sianipar,2024-08-30 This book is dedicated to the development of a sophisticated and feature rich Tkinter GUI that leverages Elliptic Curve Cryptography ECC for various cryptographic operations including key generation encryption decryption signing and verifying data The primary goal is to create an interactive application that allows users to perform these operations on synthetic financial data demonstrating the practical use of ECC in securing sensitive information The GUI is meticulously designed with multiple tabs each corresponding to a different cryptographic function enabling users to navigate through key generation data encryption decryption and digital signature processes seamlessly The GUI starts with the key generation tab where users can generate ECC key pairs These key pairs are essential for the subsequent encryption and signing operations The GUI provides feedback on the generated keys displaying the public and private keys in hexadecimal format This feature is crucial for understanding the foundational role of ECC in modern cryptography where small key sizes provide strong security The key generation process also highlights the advantages of ECC over traditional RSA particularly in terms of efficiency and security per bit length In the encryption and decryption tab the GUI enables users to encrypt synthetic financial data using the previously generated ECC keys The encryption process is performed using AES in Cipher Feedback CFB mode with the AES key derived from the ECC private key through key derivation functions This setup showcases the hybrid approach where ECC is used for key exchange or key derivation and AES is employed for the actual encryption of data The GUI displays the generated ciphertext in a hexadecimal format along with the Initialization Vector IV used in the encryption process providing a clear view of how the encrypted data is structured The signing and verifying tab demonstrates the use of ECC for digital signatures Here users can sign the synthetic financial data using the ECDSA Elliptic Curve Digital Signature Algorithm a widely recognized algorithm for ensuring data integrity and authenticity The GUI displays the generated digital signature in hexadecimal format offering insights into how ECC is applied in real world scenarios like secure messaging and digital certificates The verification process where the signature is checked against the original data using the ECC public key is also integrated into the GUI emphasizing the importance of digital signatures in verifying data authenticity The synthetic financial data used in these operations is generated within the GUI simulating transaction records that include fields such as transaction ID account number amount currency timestamp and transaction type This dataset is crucial for demonstrating the encryption and signing processes in a context that mirrors real world financial systems By encrypting and signing this data users can understand how ECC can be applied to protect sensitive information in financial transactions ensuring both confidentiality and integrity Finally the GUI s design incorporates user friendly elements such as scrolled text widgets for displaying long hexadecimal outputs entry fields for user inputs and clear labels for guiding the user through each cryptographic operation The application provides a comprehensive and interactive learning experience allowing users to explore the intricacies of ECC in a controlled environment By integrating ECC with AES for encryption and ECDSA for signing the GUI offers a practical demonstration of how modern cryptographic techniques

can be combined to secure data making it an invaluable tool for anyone looking to understand or teach the principles of ECC based cryptography   *EC Cryptography Tutorials - Herong's Tutorial Examples* Herong Yang,2019-03-03 This EC Elliptic Curve cryptography tutorial book is a collection of notes and sample codes written by the author while he was learning cryptography technologies himself Topics include rule of chord and point addition on elliptic curves Abelian groups with additive multiplicative notations EC as Abelian groups DLP Discrete Logarithm Problem and trapdoor function Galois fields or finite fields with Additive Multiplicative Abelian Group Prime fields binary fields and polynomial fields EC fields reduced with modular arithmetic EC subgroup and base points EC private key and public key pairs ECDH Elliptic Curve Diffie Hellman protocol ECDSA Elliptic Curve Digital Signature Algorithm ECES Elliptic Curve Encryption Scheme protocol Java tool program to generate EC keys Updated in 2022 Version v1 02 with minor changes For latest updates and free sample chapters visit https www herongyang com EC Cryptography   **Choice** ,1998   Guide to Elliptic Curve Cryptography Darrel Hankerson,Alfred J. Menezes,Scott Vanstone,2006-06-01 After two decades of research and development elliptic curve cryptography now has widespread exposure and acceptance Industry banking and government standards are in place to facilitate extensive deployment of this efficient public key mechanism Anchored by a comprehensive treatment of the practical aspects of elliptic curve cryptography ECC this guide explains the basic mathematics describes state of the art implementation methods and presents standardized protocols for public key encryption digital signatures and key establishment In addition the book addresses some issues that arise in software and hardware implementation as well as side channel attacks and countermeasures Readers receive the theoretical fundamentals as an underpinning for a wealth of practical and accessible knowledge about efficient application Features Benefits Breadth of coverage and unified integrated approach to elliptic curve cryptosystems Describes important industry and government protocols such as the FIPS 186 2 standard from the U S National Institute for Standards and Technology Provides full exposition on techniques for efficiently implementing finite field and elliptic curve arithmetic Distills complex mathematics and algorithms for easy understanding Includes useful literature references a list of algorithms and appendices on sample parameters ECC standards and software tools This comprehensive highly focused reference is a useful and indispensable resource for practitioners professionals or researchers in computer science computer engineering network design and network data security   **Introduction to Cryptography with Mathematical Foundations and Computer Implementations** Alexander Stanoyevitch,2020-07-28 From the exciting history of its 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 concepts in chronological order developing the mathematics as needed Written in an engaging yet rigorous style each chapter introduces important concepts with clear definitions and theorems Numerous examples explain key points while figures and tables help

illustrate more difficult or subtle concepts Each chapter is punctuated with Exercises for the Reader complete solutions for these are included in an appendix Carefully crafted exercise sets are also provided at the end of each chapter and detailed solutions to most odd numbered exercises can be found in a designated appendix The computer implementation section at the end of every chapter guides students through the process of writing their own programs A supporting website provides an extensive set of sample programs as well as downloadable platform independent applet pages for some core programs and algorithms As the reliance on cryptography by business government and industry continues and new technologies for transferring data become available cryptography plays a permanent important role in day to day operations This self contained sophomore level text traces the evolution of the field from its origins through present day cryptosystems including public key cryptography and elliptic curve cryptography BRIEF TABLE OF CONTENTS PrefaceChapter 1 An Overview of the SubjectChapter 2 Divisibility and Modular ArithmeticChapter 3 The Evolution of Codemaking Until the Computer EraChapter 4 Matrices and the Hill CryptosystemChapter 5 The Evolution of Codebreaking Until the Computer EraChapter 6 Representation and Arithmetic of Integers in Different Bases Chapter 7 Block Cryptosystems and the Data Encryption Standard DES Chapter 8 Some Number Theory and AlgorithmsChapter 9 Public Key CryptographyChapter 10 Finite Fields in General and GF 256 in ParticularChapter 11 The Advanced Encryption Standard Protocol AES Chapter 12 Elliptic Curve CryptographyAppendix A Sets and Basic Counting PrinciplesAppendix B Randomness and ProbabilityAppendix C Solutions to all Exercises for the ReaderAppendix D Answers to Selected ExercisesReferencesIndex EDITORIAL REVIEWS This book is a very comprehensible introduction to cryptography It will be very suitable for undergraduate students There is adequate material in the book for teaching one or two courses on cryptography The author has provided many mathematically oriented as well as computer based exercises I strongly recommend this book as an introductory book on cryptography for undergraduates IACR Book Reviews April 2011 a particularly good entry in a crowded field As someone who has taught cryptography courses in the past I was particularly impressed with the scaled down versions of DES and AES that the author describes Stanoyevitch s writing style is clear and engaging and the book has many examples illustrating the mathematical concepts throughout One of the many smart decisions that the author made was to also include many computer implementations and exercises at the end of each chapter It is also worth noting that he has many MATLAB implementations on his website It is clear that Stanoyevitch designed this book to be used by students and that he has taught this type of student many times before The book feels carefully structured in a way that builds nicely it is definitely a solid choice and will be on the short list of books that I would recommend to a student wanting to learn about the field MAA Reviews May 2011

Modern Cryptography and Elliptic Curves Thomas R. Shemanske,2017-07-31 This book offers the beginning undergraduate student some of the vista of modern mathematics by developing and presenting the tools needed to gain an understanding of the arithmetic of elliptic curves over finite fields and their applications to modern cryptography This

gradual introduction also makes a significant effort to teach students how to produce or discover a proof by presenting mathematics as an exploration and at the same time it provides the necessary mathematical underpinnings to investigate the practical and implementation side of elliptic curve cryptography ECC Elements of abstract algebra number theory and affine and projective geometry are introduced and developed and their interplay is exploited Algebra and geometry combine to characterize congruent numbers via rational points on the unit circle and group law for the set of points on an elliptic curve arises from geometric intuition provided by B zout s theorem as well as the construction of projective space The structure of the unit group of the integers modulo a prime explains RSA encryption Pollard s method of factorization Diffie Hellman key exchange and ElGamal encryption while the group of points of an elliptic curve over a finite field motivates Lenstra s elliptic curve factorization method and ECC The only real prerequisite for this book is a course on one variable calculus other necessary mathematical topics are introduced on the fly Numerous exercises further guide the exploration **Advances in Elliptic Curve Cryptography** Ian F. Blake,Gadiel Seroussi,Nigel P. Smart,2005-04-25 This second volume addresses tremendous progress in elliptic curve cryptography since the first volume *Elliptic Curves in Cryptography* Ian F. Blake,G. Seroussi,N. Smart,1999-07-08 This book summarizes knowledge built up within Hewlett Packard over a number of years and explains the mathematics behind practical implementations of elliptic curve systems Due to the advanced nature of the mathematics there is a high barrier to entry for individuals and companies to this technology Hence this book will be invaluable not only to mathematicians wanting to see how pure mathematics can be applied but also to engineers and computer scientists wishing or needing to actually implement such systems **Elliptic Curves and Their Applications to Cryptography** Andreas Enge,2012-12-06 Since their invention in the late seventies public key cryptosystems have become an indispensable asset in establishing private and secure electronic communication and this need given the tremendous growth of the Internet is likely to continue growing Elliptic curve cryptosystems represent the state of the art for such systems Elliptic Curves and Their Applications to Cryptography An Introduction provides a comprehensive and self contained introduction to elliptic curves and how they are employed to secure public key cryptosystems Even though the elegant mathematical theory underlying cryptosystems is considerably more involved than for other systems this text requires the reader to have only an elementary knowledge of basic algebra The text nevertheless leads to problems at the forefront of current research featuring chapters on point counting algorithms and security issues The Adopted unifying approach treats with equal care elliptic curves over fields of even characteristic which are especially suited for hardware implementations and curves over fields of odd characteristic which have traditionally received more attention Elliptic Curves and Their Applications An Introduction has been used successfully for teaching advanced undergraduate courses It will be of greatest interest to mathematicians computer scientists and engineers who are curious about elliptic curve cryptography in practice without losing the beauty of the underlying mathematics Handbook of Elliptic and Hyperelliptic Curve Cryptography

Henri Cohen,Gerhard Frey,Roberto Avanzi,Christophe Doche,Tanja Lange,Kim Nguyen,Frederik Vercauteren,2005-07-19 The discrete logarithm problem based on elliptic and hyperelliptic curves has gained a lot of popularity as a cryptographic primitive The main reason is that no subexponential algorithm for computing discrete logarithms on small genus curves is currently available except in very special cases Therefore curve based cryptosystems require much smaller key sizes than RSA to attain the same security level This makes them particularly attractive for implementations on memory restricted devices like smart cards and in high security applications The Handbook of Elliptic and Hyperelliptic Curve Cryptography introduces the theory and algorithms involved in curve based cryptography After a very detailed exposition of the mathematical background it provides ready to implement algorithms for the group operations and computation of pairings It explores methods for point counting and constructing curves with the complex multiplication method and provides the algorithms in an explicit manner It also surveys generic methods to compute discrete logarithms and details index calculus methods for hyperelliptic curves For some special curves the discrete logarithm problem can be transferred to an easier one the consequences are explained and suggestions for good choices are given The authors present applications to protocols for discrete logarithm based systems including bilinear structures and explain the use of elliptic and hyperelliptic curves in factorization and primality proving Two chapters explore their design and efficient implementations in smart cards Practical and theoretical aspects of side channel attacks and countermeasures and a chapter devoted to pseudo random number generation round off the exposition The broad coverage of all important areas makes this book a complete handbook of elliptic and hyperelliptic curve cryptography and an invaluable reference to anyone interested in this exciting field

   Implementing Elliptic Curve Cryptography Michael Rosing,1999 Implementing Elliptic Curve Cryptography proceeds step by step to explain basic number theory polynomial mathematics normal basis mathematics and elliptic curve mathematics With these in place applications to cryptography are introduced The book is filled with C code to illustrate how mathematics is put into a computer and the last several chapters show how to implement several cryptographic protocols The most important is a description of P1363 an IEEE draft standard for public key cryptography The main purpose of Implementing Elliptic Curve Cryptography is to help crypto engineers implement functioning state of the art cryptographic algorithms in the minimum time   *Elliptic Curves* Lawrence C. Washington,2008-04-03 Like its bestselling predecessor Elliptic Curves Number Theory and Cryptography Second Edition develops the theory of elliptic curves to provide a basis for both number theoretic and cryptographic applications With additional exercises this edition offers more comprehensive coverage of the fundamental theory techniques and application

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Elliptic Curve Cryptography Matlab Manual Introduction

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