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Author Alfred  
John Menezes  
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Alfred John  
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11: Elliptic Curve

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Cryptography  
(Explained Simply)

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\u0026amp; Diffie-  
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Cryptography — Part  
4 — Generating the  
Public Key (in  
Python)

Overview of Elliptic  
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Based Public Key  
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Assumptions Elliptic  
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Cryptography  
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Tutorial -  
Understanding ECC  
through the Diffie-  
Hellman Key

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Part 9

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Algorithm (2 of 2:  
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~~Asymmetric Key~~

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Knowledge Elliptic  
Curve Point

Addition Elliptic  
Curve

Diffie-Hellman key  
exchange (ECDH) -  
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Cryptography:  
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w/ Elliptic Curve -  
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Part 10

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Other Public Key  
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Part 2

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Elliptic-curve

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Johansson  
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cryptography is an  
approach to public-  
key cryptography  
based on the

algebraic structure  
of elliptic curves  
over finite fields.

ECC allows smaller  
keys compared to  
non-EC

cryptography to

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Public Key Cryptosystems  
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provide equivalent security. Elliptic curves are applicable for key agreement, digital signatures, pseudo-random generators and other tasks. Indirectly, they can be used for encryption by combining the key agreement with a symmetric

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Public Key encryption scheme.

They are also used  
in several integer  
factoriza

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Elliptic-curve  
cryptography -  
Wikipedia

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Key Cryptosystems  
provides an up-to-  
date and self-  
contained treatment



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of elliptic curve-based public key cryptology. Elliptic curve cryptosystems potentially provide equivalent security to the existing public key schemes, but with shorter key lengths. Having short key lengths means smaller bandwidth and

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memory Key  
requirements and  
can be a crucial  
factor in some  
applications, for  
example the design  
of smart card  
systems.

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(The Springer  
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in Engineering and  
Computer Science)

Softcover reprint of  
the original 1st ed.  
1993 by Menezes,  
Alfred J. (ISBN:  
9781461364030)  
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Elliptic Curve Public  
Key Cryptosystems  
(The Springer ...

An elliptic curve  
over the reals is  
dened by (3.2)  
where  $a$  and  $b$  are  
real numbers. The  
graph of the elliptic

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curve over real numbers consists of two components if its discriminant is positive and of one component if it is negative. We now define the group law on elliptic curves which is useful for cryptographic purposes.

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## INTRODUCTION TO ELLIPTIC CURVE

### CRYPTOGRAPHY

public key  
cryptosystems are  
the RSA cryptosys-  
tem (RSA) 1) and  
the ElGamal  
cryptosystem; 2)  
these were  
invented in 1978  
and 1984,  
respectively. The

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elliptic curve  
cryptosystem  
(ECC) was invented  
by N. Koblitz<sup>3</sup>) and  
by V. Miller<sup>4</sup>) inde-  
pendently in 1985  
and is expected to  
become the next-  
generation public  
key cryptosystem.  
A lot of

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Cryptosystem -

Fujitsu

Cryptosystems  
Elliptic Curve

Author Alfred

Cryptography  
(ECC) - Concepts.

The Elliptic Curve

Cryptography

(ECC) is modern

family of public-key

cryptosystems,

which is based on

the algebraic

structures of the

elliptic curves over



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finite fields and on  
the difficulty of the  
Elliptic Curve  
Discrete Logarithm  
Problem (ECDLP)..  
ECC implements all  
major capabilities of  
the asymmetric  
cryptosystems:  
encryption,  
signatures and ...

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Cryptography  
(ECC) · Practical  
Cryptography ...

We discuss analogs  
based on elliptic  
curves over finite  
fields of public key  
cryptosystems  
which use the  
multiplicative group  
of a finite field.

These elliptic curve  
cryptosystems may  
be more secure,

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John Menzies  
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because the analog  
of the discrete  
logarithm problem  
on elliptic curves is  
likely to be harder  
than the classical  
discrete logarithm  
problem, especially

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Cryptosystems -  
JSTOR  
in using elliptic

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Public Key Cryptosystems  
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curves for integer factorization, make it natural to study the possibility of public key cryptography based on the structure of the group of points of an elliptic curve over a large finite field. We first briefly recall the facts we need about such elliptic curves

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(for more details,  
see [4] or [5]). We  
then describe  
elliptic

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provides an up-to-  
date and self-  
contained treatment  
of elliptic curve-  
based public key  
cryptology. Elliptic  
curve  
cryptosystems  
potentially provide  
equivalent security  
to the existing  
public key schemes,



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but with shorter key lengths. Having short key lengths means smaller bandwidth and memory requirements and can be a crucial factor in some applications, for example the design of smart card systems.

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This cryptographic  
system uses the  
well studied  
mathematics of  
supersingular  
elliptic curves to  
create a Diffie-  
Hellman like key  
exchange that can  
serve as a

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straightforward  
quantum computing  
resistant  
replacement for the  
Diffie-Hellman and  
elliptic curve  
Diffie – Hellman key  
exchange methods  
that are in  
widespread use  
today.

---

Post-quantum

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Public Key -

Wikipedia

This paper analyzes  
the KMOV public

key cryptosystem,

which is an elliptic  
curve based

analogue to RSA. It

was believed that

this cryptosystem

is more secure

against attacks

without factoring

such as the Hs in

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Public Key  
broadcast  
application. Some  
new attacks on  
KMOV are  
presented in this  
paper that show the  
converse.

---

On the security of  
the KMOV public  
key cryptosystem  
Elliptic curve (EC)  
cryptosystems

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Public Key  
were first  
suggested by Miller  
and Koblitz. A main  
feature that makes  
EC attractive is the  
relatively short  
operand length  
relative to RSA and  
systems based on  
the discrete  
logarithm (DL) in

---

Efficient algorithms

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Public Key  
for elliptic curve  
cryptosystems

The elliptic curve  
cryptosystem was  
initially proposed  
by Koblitz (1987)  
and Miller (1985)  
to design public key  
cryptosystem and  
presently it is  
widely used in  
several  
cryptographic  
schemes to...

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234: Menezes ...

This book covers public-key cryptography, describing in depth all major public-key cryptosystems in current use, including ElGamal, RSA, Elliptic Curve, and digital signature schemes. It explains the underlying

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mathematics  
needed to build  
Cryptosystems  
these schemes, and  
Author Alfred  
examines the most  
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common techniques  
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used in attacking  
them.

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