

## The Mathematics Of Encryption An Elementary Introduction Mathematical World

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Modern cryptography lies at the intersection of mathematics and computer sciences, involving number theory, algebra, computational complexity, fast algorithms, and even quantum mechanics.

*The Mathematics of Encryption: An Elementary Introduction ...*

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*The Mathematics of Encryption - Margaret Cozzens, Steven J ...*

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*The Mathematics of Encryption - American Mathematical Society*

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Equivalently, the last term is  $n! / (k! 1)$ . We've just shown that the number of ways to choose  $k$  people from  $n$  people (with order mattering) is  $n(n-1)\dots(n-k+1)$ . This wants to be a factorial, but it doesn't go all the way down to 1. To remedy this, let's argue as before and multiply by  $(n-k)! / (n-k)!$ .

*The Mathematics of Encryption: An Elementary Introduction*

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At the base of the Rivest-Shamir-Adleman, or RSA, encryption scheme is the mathematical task of factoring. Factoring a number means identifying the prime numbers which, when multiplied together, produce that number. Thus 126,356 can be factored into  $2 \times 2 \times 31 \times 1,019$ , where 2, 31, and 1,019 are all prime.

*The science of encryption: prime numbers and mod arithmetic*

encryption scheme, and is not readable by humans. • E is the encryption function. We write, for example,  $E(P) = C$  to mean that applying the encryption process E to the plaintext P produces the ciphertext C. • D is the decryption function, i.e.  $D(C) = P$ . Note  $D(E(P)) = P$  and  $E(D(C)) = C$ .

*The mathematics of cryptology*

The idea of Public Key Cryptography is to send messages in such a way that only the person who receives them can understand them even if the method of encryption is discovered by 'an enemy' who intercepts the messages. The person who sends the message encodes it; the person who receives the message decodes it (puts it back into a readable form).

*Public Key Cryptography - Millennium Mathematics Project*

The Mathematics of Secrets: Cryptography from Caesar Ciphers to Digital Encryption eBook: Holden, Joshua: Amazon.co.uk: Kindle Store

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