

crypto

Provable security

https://en.wikipedia.org/wiki/Provable_security

Computational hardness assumption

https://en.wikipedia.org/wiki/Computational_hardness_assumption

Semantic security

https://en.wikipedia.org/wiki/Semantic_security

Polynomial time

https://en.wikipedia.org/wiki/Time_complexity#Polynomial_time

PP (complexity)

[https://en.wikipedia.org/wiki/PP_\(complexity\)](https://en.wikipedia.org/wiki/PP_(complexity))

Post-quantum cryptography

https://en.wikipedia.org/wiki/Post-quantum_cryptography

crypto people

Schneier on Security

<https://www.schneier.com/>

D. J. Bernstein

<https://cr.yp.to/djb.html>

ciphers

Block cipher

https://en.wikipedia.org/wiki/Block_cipher

Block cipher mode of operation

https://en.wikipedia.org/wiki/Block_cipher_mode_of_operation

Shor's algorithm

https://en.wikipedia.org/wiki/Shor%27s_algorithm ==> brute-force RSA

Stream cipher

https://en.wikipedia.org/wiki/Stream_cipher

RC4

<https://en.wikipedia.org/wiki/RC4>

padding

Padding

https://en.wikipedia.org/wiki/Block_cipher_mode_of_operation#Padding

<https://stackoverflow.com/questions/2991603/pkcs1-v2-0-encryption-is-usually-called-oaep-encryption-where-can-i-confirm-i>

https://en.wikipedia.org/wiki/PKCS_1

hash functions

SHA-3

<https://en.wikipedia.org/wiki/SHA-3>

Sponge function

https://en.wikipedia.org/wiki/Sponge_function

Message authentication code

https://en.wikipedia.org/wiki/Message_authentication_code

prng

Pseudorandom number generator

https://en.wikipedia.org/wiki/Pseudorandom_number_generator

Pseudorandom generator

https://en.wikipedia.org/wiki/Pseudorandom_generator

One-way function

https://en.wikipedia.org/wiki/One-way_function

Pseudorandom generator theorem

https://en.wikipedia.org/wiki/Pseudorandom_generator_theorem

Pseudorandom function family

https://en.wikipedia.org/wiki/Pseudorandom_function_family

/dev/random

<https://en.wikipedia.org/wiki//dev/random>

Hardware random number generator

https://en.wikipedia.org/wiki/Hardware_random_number_generator

arc4random – arc4 random number generator

<https://man.dragonflybsd.org/?command=arc4random§ion=3>

random - random number devices

<https://man.dragonflybsd.org/?command=random§ion=4>

random - random number devices

<https://man.dragonflybsd.org/?command=random§ion=3>

Yarrow algorithm

https://en.wikipedia.org/wiki/Yarrow_algorithm

true randomness

<https://www.random.org/>

mac & ad

MAC

https://en.wikipedia.org/wiki/Message_authentication_code#Security ==> more on non-repudiation

Universal hashing

https://en.wikipedia.org/wiki/Universal_hashing

One-time pad

https://en.wikipedia.org/wiki/One-time_pad

Poly1305

<https://en.wikipedia.org/wiki/Poly1305> ==> many more ssl libs there

ChaCha20 & Poly1305

<https://datatracker.ietf.org/doc/html/rfc8439>

A Security Analysis of the Composition of ChaCha20 and Poly1305

<https://eprint.iacr.org/2014/613.pdf>

NaCl (software)

[https://en.wikipedia.org/wiki/NaCl_\(software\)](https://en.wikipedia.org/wiki/NaCl_(software))

AEAD Algorithms

<https://www.iana.org/assignments/aead-parameters/aead-parameters.xhtml>

Authenticated encryption

[https://en.wikipedia.org/wiki/Authenticated_encryption#Authenticated_encryption_with_associated_data_\(AEAD\)](https://en.wikipedia.org/wiki/Authenticated_encryption#Authenticated_encryption_with_associated_data_(AEAD))

UMAC: Fast and Provably Secure Message Authentication

<http://fastcrypto.org/umac/>

UMAC message authentication for SSH

<https://datatracker.ietf.org/doc/html/draft-miller-secsh-umac-01>

VMAC

<http://www.fastcrypto.org/vmac/draft-krovetz-vmac-01.txt>

key-exchange

Diffie–Hellman key exchange

https://en.wikipedia.org/wiki/Diffie%E2%80%93Hellman_key_exchange

mitm

MIG-in-the-middle

<https://web.archive.org/web/20220312032816/https://www.dlab.ninja/2012/04/mig-in-middle.html>

pkix

Public key infrastructure

https://en.wikipedia.org/wiki/Public_key_infrastructure

X.509

<https://en.wikipedia.org/wiki/X.509>

mitm-happy

HTTP Strict Transport Security

https://en.wikipedia.org/wiki/HTTP_Strict_Transport_Security

HTTP Strict Transport Security (HSTS) and NGINX

<https://www.nginx.com/blog/http-strict-transport-security-hsts-and-nginx/>

HSTS Preloading using Nginx, Letsencrypt and Capistrano.

<https://dev.to/sonica/hsts-preloading-using-nginx-letsencrypt-and-capistrano-1817>

Setting up HSTS in nginx

<https://scotthelme.co.uk/setting-up-hsts-in-nginx/>

infosec

Information security

https://en.wikipedia.org/wiki/Information_security

anti-trojan

5 Tools to Scan a Linux Server for Malware and Rootkits

<https://www.tecmint.com/scan-linux-for-malware-and-rootkits/>

sniffing

How do I use SSH Remote Capture in Wireshark

<https://ask.wireshark.org/question/2506/how-do-i-use-ssh-remote-capture-in-wireshark/>

videos

DEF CON 19 - Moxie Marlinspike - SSL And The Future Of Authenticity
https://www.youtube.com/watch?v=UawS3_iuHoA