

ISO/IEC 18033-4:2011-12 (E)

Information technology - Security techniques - Encryption algorithms - Part 4: Stream ciphers

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols and abbreviated terms	3
4.1	Symbols	3
4.2	Functions	5
5	Framework for stream ciphers	6
6	General models for stream ciphers	6
6.1	Keystream generators	6
6.2	Output functions	7
7	Constructing keystream generators from block ciphers	10
7.1	Block cipher modes for a synchronous keystream generator	10
7.2	Block cipher mode for a self-synchronizing keystream generator	12
8	Dedicated keystream generators	13
8.1	MUGI keystream generator	13
8.2	SNOW 2.0 keystream generator	18
8.3	Rabbit keystream generator	23
8.4	Decimv2 keystream generator	27
8.5	KCipher-2 (K2) keystream generator	33
Annex A (normative) Object Identifiers		43
Annex B (informative) Operations over the finite field GF(2 ⁿ)		45
Annex C (informative) Examples		46
Annex D (informative) Security information		88
Bibliography		91