

Abkürzungsverzeichnis

Begleitmaterial zum Buch

Grundlagen der digitalen Kommunikationstechnik

Übertragungstechnik – Signalverarbeitung – Netze

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A

AAL	ATM Adaptation Layer
ABR	Available Bit Rate
ABT/DT	ATM Block Transfer/Delayed Transmission
ABT/IT	ATM Block Transfer/Immediate Transmission
ACR	Allowed Cell Rate
ADPCM	Adaptive Differential Pulse Code Modulation
ADSL	Asymmetric Digital Subscriber Line
APK	Amplitude-Phase Keying
ARP	Address Resolution Protocol
ARQ	Automatic Repeat Request
ASK	Amplitude-Shift Keying
ATC	ATM Transfer Capability
ATM	Asynchronous Transfer Mode
AWGN	Additive White Gaussian Noise

B

BE	Best Effort
BHCA	Busy Hour Call Attempts
B-ISDN	Broadband Integrated Services Digital Network
BIP	Bit Interleaved Parity
BSC	Binary Symmetric Channel

C

CAC	Connection Admission Control
CAP	Carrierless Amplitude-Phase Modulation
CBR	Constant Bit Rate
CDMA	Code Division Multiple Access
CDV	Cell Delay Variation
CDVT	Cell Delay Variation Tolerance
CER	Cell Error Ratio
CI	Congestion Indication
CIDR	Classless Interdomain Routing
CLR	Cell Loss Ratio
CRC	Cyclic Redundancy Check
CLP	Cell Loss Priority
CMR	Cell Misinsertion Rate
CPCS	Common Part Convergence Sublayer
CPE	Customer Premises Equipment
CRC	Cyclic Redundancy Check
CSMA	Carrier Sense Multiple Access
CTD	Cell Transfer Delay

D

DAB	Digital Audio Broadcasting
dB	Dezibel
DBPSK	Differential Binary Phase-Shift Keying
DBR	Deterministic Bit Rate
DCT	Discrete Cosine Transform
DECT	Digital European Cordless Telephone
DFT	Discrete Fourier Transform
DHCP	Dynamic Host Configuration Protocol
DMT	Discrete Multitone
DNS	Domain Name Service
DPCM	Differential Pulse Code Modulation
DPSK	Differential Phase-Shift Keying
DQDB	Distributed Queue Dual Bus
DRM	Digital Radio Mondiale
DRM	Digital Rights Management
DS	Differentiated Services
DSL	Digital Subscriber Line
DSLAM	Digital Subscriber Line Access Multiplexer
DTMF	Dual Tone Multiple Frequency
DVB	Digital Video Broadcasting

E

EFCI	Explicit Forward Congestion Indication
ENOB	Effective Number of Bits
EPD	Early Packet Discard
ERF	Explicit Rate Feedback
ETSI	European Telecommunications Standards Institute

F

FCS	Frame Check Sequence
FDD	Frequency Division Duplex
FDDI	Fiber Distributed Data Interface
FDMA	Frequency Division Multiple Access
FEC	Forward Error Control
FEC	Forwarding Equivalence Class
FFT	Fast Fourier Transform
FIFO	First In First Out
FIR	Finite Impulse Response
FSK	Frequency-Shift Keying
FTTB	Fiber to the Building
FTTC	Fiber to the Curb
FTTH	Fiber to the Home

G

GCRA	Generic Cell Rate Algorithm
GFC	Generic Flow Control
GFR	Guaranteed Frame Rate
GMPLS	Generalized Multiprotocol Label Switching
GMSK	Gaussian Minimum-Shift Keying
GPS	Global Positioning System
GSM	Global System for Mobile Communication

H

HDLC	High Level Data Link Control
HDMI	High-Definition Multimedia Interface
HEC	Header Error Control
HFC	Hybrid Fiber-Coax

I

IBT	Intrinsic Burst Tolerance
ICMP	Internet Control Message Protocol
IDFT	Inverse Discrete Fourier Transform
IEEE	Institute of Electrical and Electronic Engineers
IETF	Internet Engineering Taskforce
IGMP	Internet Group Management Protocol
IIR	Infinite Impulse Response
IP	Internet Protocol
IPTV	Internet Protocol Television
ISDN	Integrated Services Digital Network
ISM	In-Service Monitoring
ITU	International Telecommunication Union

J

JPEG	Joint Photographic Experts Group
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L

LAN	Local Area Network
LAPD	Link Access Procedure D-Channel
LMS	Least-Mean Square
LPC	Linear Predictive Coding
LSP	Label Switched Path
LSR	Label Switching Router
LTI	Linear Time-Invariant

M

MAC	Medium Access Control
MAN	Metropolitan Area Network

MBS	Maximum Burst Size
MCR	Minimum Cell Rate
MCU	Multipoint Control Unit
MFS	Maximum Frame Size
MOS	Mean Opinion Score
MP	Measurement Point
MPEG	Moving Picture Expert Group
MPLS	Multiprotocol Label Switching
MSK	Minimum-Shift Keying
MUX	Multiplexer
N	
NGN	Next Generation Networks
NNI	Network Node Interface
NPC	Network Parameter Control
NRZ	Non-Return to Zero
NSAP	Network Service Access Point
NTP	Network Time Protocol
O	
OAM	Operation and Maintenance
OFDM	Orthogonal Frequency-Division Multiplexing
OOK	On-Off Keying
QPSK	Quadrature Phase-Shift Keying
OSI	Open System Interconnection
P	
PCM	Pulse Code Modulation
PCR	Peak Cell Rate
PDH	Plesiochronous Digital Hierarchy
PDU	Protocol Data Unit
PL	Physical Layer
PLC	Powerline Communication
PLL	Phase-Locked Loop
PN	Pseudo Noise
PON	Passive Optical Network
PoS	Packet over SONET/SDH
POTS	Plain Old Telephone Service
PPP	Point-to-Point Protocol
PRBS	Pseudo Random Binary Sequence
PRC	Primary Reference Clock
PRM	Protocol Reference Model
PRN	Pseudo Random Noise
PSK	Phase-Shift Keying

PT	Payload Type
PVC	Permanent Virtual Channel
Q	
QoS	Quality of Service
R	
RED	Random Early Detection
RIF	Rate Increase Factor
RDF	Rate Decrease Factor
RM	Resource Management
RRF	Relative Rate Feedback
RSVP	Resource Reservation Protocol
RTCP	Real-Time Transport Control Protocol
RTP	Real-Time Transport Protocol
RTSP	Real-Time Streaming Protocol
RZ	Return to Zero
S	
SAAL	Signalling ATM Adaptation Layer
SAP	Service Access Point
SBR	Statistical Bit Rate
SCR	Sustainable Cell Rate
SDH	Synchronous Digital Hierarchy
SDSL	Single-Pair Symmetric Digital Subscriber Line
SDU	Service Data Unit
SECBR	Severely Errored Cell Block Ratio
SIP	Session Initiation Protocol
SLA	Service Level Agreement
SLS	Service Level Specification
SNR	Signal-to-Noise Ratio
SONET	Synchronous Optical Network
SRTS	Synchronous Residual Time Stamp
STM	Synchronous Transport Module
SVC	Switched Virtual Channel
T	
TAE	Telekommunikationsanschlusseinheit
TAT	Theoretical Arrival Time
TCP	Transmission Control Protocol
TDD	Time Division Duplex
TDMA	Time Division Multiple Access
TE	Terminal Equipment
TOS	Type of Service

U

UBR	Unspecified Bit Rate
UDP	User Datagram Protocol
UNI	User Network Interface
UPC	Usage Parameter Control
UWB	Ultra-Wideband

V

VBR	Variable Bit Rate
VC	Virtual Channel
VCC	Virtual Channel Connection
VCI	Virtual Channel Identifier
VCO	Voltage Controlled Oscillator
VDSL	Very high speed Digital Subscriber Line
VLAN	Virtual Local Area Network
VoIP	Voice over IP
VoP	Voice over Packet
VP	Virtual Path
VPC	Virtual Path Connection
VPI	Virtual Path Identifier
VPN	Virtual Private Network
VSA	Virtual Scheduling Algorithm

W

WAN	Wide Area Network
WLAN	Wireless Local Area Network
WFQ	Weighted Fair Queueing
WiMAX	Worldwide Interoperability for Microwave Access