

( ) ,  
INTERSTATE COUNCIL FOR STANDARDIZATION, METROLOGY AND CERTIFICATION  
(ISC)

# **IEC 60050-702- 2022**

702

,

**[IEC 60050-702:1992 + Amd. 1 (2016), Amd. 2 (2016),  
Amd. 3 (2017), Amd. 4 (2018), Amd. 5 (2019), Amd. 6 (2021), IDT]**

2022

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| ( 3166) 004—97 | ( 3166) 004—97       |        |
|                | BY<br>KG<br>RU<br>UZ | «<br>» |

4 2022 . 961- IEC 60050-702—2022 21  
 1 2023 .  
 5 IEC 60050-702:1992 « -  
 702. »  
 («International electrotechnical vocabulary; Chapter 702: Oscillations, signals and related devices», IDT),  
 Amd. 1:2016-03, Amd. 2:2016-12, Amd. 3:2017-08, Amd. 4:2018-10, Amd. 5:2019-10,  
 Amd. 6:2021-04.  
 1 « -  
 » (IEC). 1—6 (Amd. 1—6)  
 00011 (Amd. 1), 00025, 00026, 00028, 00029 (Amd. 2), 00019, 00020,  
 00032, 00033, 00034 (Amd. 3), 00035, 00037, 00038, 00039 (Amd. 4), 00041, 00045, 00046  
 (Amd. 5), C00059 (Amd. 6) 1 « »

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|        |       |    |
|--------|-------|----|
| 702-01 | ..... | 1  |
| 702-02 | ..... | 2  |
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|        | ..... | 34 |
|        | ..... | 45 |

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(700- ), ( ) — -

( ), ( ) -

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1 « 702- ».

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|----------------|----------------|----------------|----------------|
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| 1( 702)( )1262 | 1( 702)( )1278 | 1( 702)( )1279 | 1( 702)( )1285 |

1—6 (Amd. 1—6) 00011 (Amd. 1), 00025, 00026,

00028, 00029 (Amd. 2), 00019, 00020, 00032, 00033, 00034 (Amd. 3), 00035, 00037, 00038,

00039 (Amd. 4), 00041, 00045, 00046 (Amd. 5), C00059 (Amd. 6)

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702

International electrotechnical vocabulary. Part 702. Oscillations, signals and related devices

— 2023—01—01

702-01

|                  |  |  |   |
|------------------|--|--|---|
| 702-01-01        | ( )                                    | [frequency spectrum (in telecommunication)]; | - |
| 702-01-02        | (frequency band):                      |  | - |
| 702-01-03        | ( )                                    | [bandwidth (of a transmission channel)]      |   |
| . IEV 161-06-09. |  |  |   |
| 702-01-04        | ( )                                    | [bandwidth (of a device)]                    |   |
| . IEV 161-06-09. |  |  |   |
| 702-01-05        | ( )                                    | <b>X</b> [ dB bandwidth (of a signal)];      | - |
|                  |  | <b>X</b>                                     | - |
| 702-01-06        | (baseband):                            |  | - |
| 1                | —                                      |  |   |
| 2                |  |  | - |
| 702-01-07        | (natural frequency):                   |  | - |
| 702-01-08        | [audio frequency (AF) (abbreviation)]; |  | - |
| 16               | 16                                     |  | - |
| 702-01-09        | (video frequency):                     |  | - |

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|           |                        |   |
|-----------|------------------------|---|
| 702-01-10 | (radio frequency; RF): | - |
| —         | «radio frequency» «RF» | , |
| 702-01-11 | (frequency departure): | - |
| 702-01-12 | (frequency shift):     | - |
| 702-01-13 | (frequency drift):     | - |
| 702-01-14 | (frequency offset):    | , |

**702-02**

|                     |  |   |   |
|---------------------|--|---|---|
| —                   | 705, 726, 731                                      | , | - |
| 702-02-01           | (oscillation)                                      |   |   |
| . IEV 103-05-04.    |  |   |   |
| 702-02-02           | (wave):  | , | - |
| 702-02-03           | ( ) [emission (phenomenon)]:                       | , | - |
| 1                   | «emission» ( . IEV 702-02-05), ( . IEV 161-01-09)  | , |   |
|                     | ( . IEV 904-01-11).                                |   |   |
| 2                   | «emission»   | , |   |
| «sending»           |  |   |   |
| 702-02-04           | ( ) [sending (of a signal)]:                       |   | - |
| 702-02-05           | ( ) [emission (process in radiocommunication)]:    | , |   |
| 1                   | «emission» (« »)                                   | , | - |
| 2                   | «emission» ( . IEV 702-02-03), ( . IEV 161-01-09), |   |   |
|                     | ( . IEV 904-01-11).                                |   |   |
| 3                   | «emission»   | , | - |
| «sending» ( )       |  |   |   |
| 702-02-06           | ( ) [radiation (waves or particles)]:              | , |   |
| —                   | «radiation»  | , |   |
| ( . IEV 881-02-01). |  |   |   |
| 702-02-07           | ( ) [electromagnetic radiation (phenomenon)]:      |   |   |



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|   |                             |   |   |
|---|-----------------------------|---|---|
| 1   | «electromagnetic radiation» | ( . IEV 705-02-01).                                     | - |
| 2   |                             |   | - |
|   |                             |   | - |
| 702-02-08                                 |                             | ( ) [root-power quantity; field quantity (root power)]: | - |
| 1   | «root-power quantity»       | ( ) ISO 80000-1:2009.                                   | - |
| 2   | «field quantity»            | IEV 102-05-17 (   | - |
| «champ»).                                 |                             |   | - |
| 702-02-09                                 |                             | ( ) [level (of a time varying quantity)]:               | - |
|   |                             |   | - |
|   |                             |   | - |
| 702-02-10                                 |                             | (attenuation; loss):                                    | - |
| 1   |                             |   | - |
| 2   |                             |   | - |
|   |                             |   | - |
| 1   |                             | « » « »   | - |
| 2   |                             | «loss» «attenuation»,                                   | - |
| «insertion loss»                          | «return loss»,              | «affaiblissement d'insertion» «facteur d'adaptation»,   | - |
| 3   |                             |   | - |
| 702-02-11                                 |                             | (gain):   | - |
| 1   |                             |   | - |
| 2   |                             |   | - |
|   |                             |   | - |
| 1   |                             | « »   | - |
| 2   |                             | « ».  | - |
|   |                             |   | - |
|   |                             | « ».  | - |
| 702-02-12                                 |                             | (absorption):   | - |
|   |                             |   | - |
| 702-02-13                                 |                             | ( ) [propagation  | - |
| coefficient; propagation constant (USA)]: |                             |   | - |

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|                           |   |   |
|---------------------------|---|---|
| 702-02-14                 | a [attenuation coefficient attenuation constant (USA)]: | - |
| 702-02-15                 | [phase-change coefficient phase constant (USA)]:        | - |
| 702-02-16                 | (phase delay):  | - |
| 702-02-17                 | (phase velocity):                                       | - |
| 702-02-18                 | ( ) X [wavelength (in a given direction)]:              | - |
| 702-02-19<br>refraction): | (refractive index; index of                             | - |
| 702-02-20                 | (group delay):  | - |
|                           | $\int \frac{1}{v_g} ds.$                                |   |
| 1                         |   | - |
| 2                         |   | - |
| 702-02-21                 | (envelope delay):                                       | - |
| 702-02-22                 | (group velocity):                                       | - |

— ,  $f$ ,  $|v_g|$   
1

702-02-23 (envelope velocity): -

**702-03**

702-03-01 (pulse): -

702-03-02 (unidirectional pulse): , -

702-03-03 [pulse magnitude; pulse amplitude (deprecated)]: -

702-03-04 ; (pulse duration; pulse width): -

702-03-05 ( ) [rise time (of a pulse)]: -

90 % — , 10 %

702-03-06 ( ) [decay time (of a pulse) fall time (of a pulse)]: -

10 % — , 90 %

702-03-07 [pulse repetition frequency; PRF (abbreviation); pulse repetition rate]: -

702-03-08 (pulse spacing): -

702-03-09 (pulse duty factor): -

702-03-10 (rectangular pulse): , -

702-03-11 [pulse train; impulse train (US)]

. IEC 103-05-21.

702-03-12 (square pulse train): -

702-03-13 - 1/2. (sine-squared pulse): -

$$= \sin^2 ( t/27 ) \quad 0 < t < 27,$$

$$= 0 \quad t < 0 \quad t > 27 ,$$

— ;  
— ;  
27 — , 7 — , !2.

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702-03-14 (pulse shaping): ,

702-03-15 (pulse regeneration): , -

**702-04**

702-04-01 (signal): ,

702-04-02 (analogue signal): ,

702-04-03 (discretely timed signal): , -

702-04-04 (discretely timed signal; discrete signal): , -

702-04-05 (digital signal): , -

702-04-06 ( ) [sample (of a signal)]: ,

702-04-07 (quantization; quantizing): , -

702-04-08 (time base): ,

— « » («time base») , -

702-04-09 (timing signal): , -

702-04-10 (cyclic timing signal): , -

702-04-11 (time-scale): , -

702-04-12 (cyclic timescale): , -

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|                                      |                                    |     |                                    |   |
|--------------------------------------|------------------------------------|-----|------------------------------------|---|
| 702-04-13                            | ;                                  | ( ) | [isochronous; synchronous ( )]:    | - |
| 702-04-14                            | (isochronism):                     |     |                                    | - |
| 702-04-15                            | ;                                  | ( ) | [anisochronous, asynchronous ( )]: | - |
| ( , , IEV 411-31-09 « »).            |                                    |     |                                    |   |
| 702-04-16                            | (anisochronism):                   |     |                                    | - |
| 702-04-17                            | (synchronous):                     |     |                                    | - |
| 702-04-18                            | (synchronism):                     |     |                                    | - |
| 702-04-19                            | (non-synchronous):                 |     |                                    | - |
| 702-04-20                            | (decision content):                |     |                                    | - |
| 702-04-21                            | (Sh) (shannon):                    |     |                                    | - |
| ( <b>8</b> <b>2</b> <b>3</b> ).      |                                    |     | <b>3</b>                           |   |
| 702-04-22                            | (hartley):                         |     |                                    | - |
| 10                                   |                                    |     |                                    |   |
| ( <b>8</b> <b>10</b> <b>0,903</b> ). |                                    |     | <b>0,9</b>                         | - |
| 702-04-23                            | ( ) [dynamic range (of a signal)]: |     |                                    | - |
| 702-04-24                            | (compression):                     |     |                                    | - |
| 702-04-25                            | (to compress):                     |     |                                    | - |

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|                 |   |   |
|-----------------|---|---|
| 702-04-26       | (expansion):                            | - |
| 702-04-27       | (to expand):                            | - |
| 702-04-28       | (companding):                           | - |
| 702-04-29       | (syllabic companding):                  | - |
| 702-04-30       | (pre-emphasis):                         | - |
| 702-04-31       | (de-emphasis):                          | - |
| 702-04-32       | (limiting):                             | - |
| « — : « », « », |   |   |
| 702-04-33       | (clipping):                             | - |
| 702-04-34       | (slicing):                              | - |
| 702-04-35       | (base limiting):                        | - |
| 702-04-36       | [centre clipping (inappropriate term)]: | - |
| 702-04-37       | (clamping):                             | - |
| 1               |   |   |
| 2               | «clampage»                              | - |
| 702-04-38       | ; (automatic gain control; AGC):        | - |
| 702-04-39       | (gating):                               | - |
| 702-04-40       | ( ) [(signal or noise) spectrum]:       | - |
| 702-04-41       | (spectral component):                   | - |

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|           |  |   |
|-----------|--|---|
| 702-04-42 | (amplitude spectrum):                            | - |
| 702-04-43 | (phase spectrum):                                | - |
| 702-04-44 | (spectral representation; complex spectrum):     | - |
| 702-04-45 | (continuous spectrum):                           | - |
| 702-04-46 | (line spectrum):                                 | - |
| 702-04-47 | (spectral line):                                 | - |
| 1         |  | - |
| 2         |  | - |
| 702-04-48 | (power spectrum):                                | - |
| 702-04-49 | (energy spectral density):                       | - |
| 1         |  | - |
| 2         |  | - |
| 702-04-50 | (power spectral density power spectrum density): | - |
| 1         |  | - |
| 2         |  | - |
| 702-04-51 | ( ) [(total) harmonic factor]:                   | - |
| 702-04-52 | (analytic signal):                               | - |
| g(t)      | f(t):  | - |

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$$f(t) + is(O = f(t) - \dots - Hr7^{dt} - \dots)$$

1 f(t)

2

702-04-53 (quadrature signal harmonic conjugate signal): g(t)

cosojf — « » , sinojf  
coswt, :  
Q jo cot

702-04-54 ( ); ( ) [amplitude (of a signal) envelope (of a signal)]:  
A(t) f(t), :

$$f(t) + jg(t) \quad (0 = A(t))$$

$$E(t) \cos [2\pi f t + \theta(t)], \quad f$$

$$= \pm (\dots)$$

702-04-55 ( ) [phase (of a signal)]: cp(t)  
f(t), :

$$f(t) + jg(t)$$

702-04-56 ( ) [instantaneous frequency (of a signal)]:  
2 .

**702-05**

704 « » 721 «

702-05-01 (signal element):

702-05-02 (digit):

1

2

3 «digit» «chiffre»,  
1,2,..., 9, 0 ( . IEV 714-07-06).

702-05-03 ; [binary digit, bit, unit element ( )]:

« » IEV 721-02-33.

702-05-04 (binary figure): 0 1,



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|           |    |  |   |    |   |   |
|-----------|----|--|---|----|---|---|
| 702-05-05 | n- | (n-ary digit):   | , | n- | . | - |
| 702-05-06 | n- | (n-bit byte):  |   |    |   | - |
| 702-05-07 |    | [doublet; 2-bit byte (US); doublet byte; dibit ( )]:     |   |    |   | - |
| 702-05-08 |    | (triplet; 3-bit byte (US); triplet byte; tritbit ( . )): |   |    |   | - |
| 702-05-09 |    | (byte; octet; 8-bit byte):                               |   |    |   | , |
| 702-05-10 |    | (character):   |   |    |   |   |
| 702-05-11 |    | (code):  |   |    |   |   |
| 702-05-12 |    | (to encode; to code):                                    |   |    |   |   |
| 702-05-13 |    | (encoding; coding):                                      |   |    |   | - |
| 702-05-14 |    | (to decode):   |   |    |   |   |
| 702-05-15 |    | (decoding):  |   |    |   | - |
| 702-05-16 |    | (code conversion; transcoding):                          |   |    |   |   |
| 702-05-17 |    | ; (code word; code combination):                         |   |    |   | - |
| 702-05-18 |    | (redundant code):  |   |    |   | - |
| 702-05-19 |    | (error detecting code):                                  |   |    |   | - |
| 702-05-20 |    | (error correcting code):                                 |   |    |   | - |
| 702-05-21 |    | (significant condition):                                 |   |    |   | - |
| 702-05-22 |    | (number of significant conditions):                      |   |    |   | - |

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— , « », « », -  
 702-05-23 (digit rate): ,

1 « » , « - », « -  
 », « », « »

2 « » « ».

702-05-24 (Bd, baud):  
 1 Bd = 1 s<sup>-1</sup>.

1 20 ,  
 50 .  
 2 «rapidite de modulation» «modulation rate» «line digit rate» «debit  
 ligne» ;

**702-06**

702-06-01 (modulation)  
 . IEV 701-03-08.

702-06-02 (to modulate):

702-06-03 (carrier):

702-06-04 (modulating signal; modulating wave):

702-06-05 (modulated signal; modulated wave; modulated oscillation):

702-06-06 ( ) [carrier (component)]:

702-06-07 (multiple modulation):

702-06-08 (main carrier):

702-06-09 (intermediate carrier):

702-06-10 (sub-carrier):

702-06-11 ( ) (sideband):

1

2

702-06-12 (upper sideband):

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|           |  |   |
|-----------|--|---|
| 702-06-13 | (lower sideband):  | - |
| 702-06-14 | (modulation with a fixed reference):                       | - |
| 702-06-15 | (differential modulation):                                 | - |
| 702-06-16 | (linear modulation):                                       | - |
| 702-06-17 | (amplitude modulation, ):                                  | - |
| 702-06-18 | (amplitude shift keying, ASK, amplitude shift modulation): | - |
| 702-06-19 | (modulation factor):                                       | - |
| 1         |  |   |
| 2         |  |   |
| 702-06-20 | (overmodulation):  | - |
|           | 100 %, 1.  |   |
| 702-06-21 | (under-modulation):  | - |
| 702-06-22 | (full carrier):  | - |
| 702-06-23 | (reduced carrier):   | - |
| 6         |  |   |
| 702-06-24 | (suppressed carrier):                                      | - |
| 702-06-25 | ; [double sideband; DSB (abbreviation)]:                   | - |
| 702-06-26 | ; [single sideband; SSB (abbreviation)]:                   | - |

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|                    |     |   |   |
|--------------------|-----|---|---|
| 702-06-27          |     | [independent sideband; ISB (abbreviation)];                   | - |
| 702-06-28          |     | [vestigial sideband; VSB (abbreviation)];                     | - |
| 702-06-29          |     | [vestigial sideband (qualifying term)];                       | - |
| 702-06-30          |     | (angle modulation):   | - |
| 702-06-31          | ( ) | [(instantaneous) phase deviation];                            | - |
| 702-06-32          | ( ) | [peak (phase) deviation];                                     | - |
| 702-06-33          | ( ) | [(instantaneous) frequency deviation];                        | - |
| 702-06-34          | ( ) | [peak (frequency) deviation];                                 | - |
| 702-06-35          | ( ) | [peak-to-peak (frequency); deviation                          | - |
| frequency swing];  |     |   |   |
| 702-06-36          |     | [phase modulation; PM (abbreviation)];                        | - |
| 702-06-37          |     | [frequency modulation; FM (abbreviation)];                    | - |
| 702-06-38          |     | [frequency deviation ratio];                                  | - |
| 702-06-39          |     | (phase shift):  | - |
| 702-06-40          |     | (phase shift keying; PSK; phase shift modulation; phase shift | - |
| signalling);       |     |   |   |
| 702-06-41          |     | (differential phase shift keying; DPSK):                      | - |
| 702-06-42          |     | [multiple phase shift keying; MPSK                            | - |
| (abbreviation)];   |     |   |   |
| 702-06-43          | 2 / | (quadrature phase shift keying; QPSK; quadrature              | - |
| phase modulation); |     | 90°.  |   |
| 702-06-44          |     | (phase inversion modulation):                                 | - |
| 702-06-45          |     | (coherent modulation):  | - |

|           |   |  |   |
|-----------|---|--|---|
| 702-06-46 | (                                       | ) [frequency shift (in keying)]:                                   | -   |
| 702-06-47 | shift signalling):                      | (frequency shift keying; FSK; frequency shift modulation frequency | -   |
| 702-06-48 | (abbreviation):                         | [n-condition frequency shift keying; n-FSK                         | -   |
| 702-06-49 | keying MSK (abbreviation):              | [minimum (phase frequency); shift                                  | -   |
| 702-06-50 | 0,5.                                    | (  | ) [modulation index (in angle modulation)]: |
| 702-06-51 | sense):                                 | [modulation by pulses; pulse modulation (deprecated in this        | -   |
| 702-06-52 |   | (pulsed carrier):  | -   |
| 702-06-53 |   | (modulation of pulses; pulsed carrier modulation):                 | -   |
| 702-06-54 | (abbreviation):                         | ; [pulse amplitude modulation;                                     | -   |
| 702-06-55 |   | [pulse time modulation; (abbreviation):                            | -   |
| 702-06-56 |   | [pulse position modulation; PPM (abbreviation)]:                   | -   |
| 702-06-57 | duration modulation; PDM (abbreviation) | pulse width modulation (deprecated):                               | -   |
| 702-06-58 | pulse repetition rate modulation]:      | ; [pulse frequency modulation; PFM (abbreviation);                 | -   |
| 702-06-59 |   | ; [pulse code modulation; PCM (abbreviation)]:                     | -   |
| 702-06-60 | modulation; DPCM):                      | ; (differential pulse code   | -   |

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|                              |     |   |   |
|------------------------------|-----|---|---|
| 702-06-61                    | -   | [(delta modulation; (abbreviation); DM (abbreviation))]:      | - |
| 702-06-62                    |     | (pulse interlacing; pulse interleaving):                      | - |
| 702-06-63<br>(abbreviation): | ( ) | [quadrature (amplitude) modulation; QAM                       | - |
| 702-06-64<br>conversion):    |     | (frequency translation; frequency changing; frequency         | - |
| 702-06-65                    |     | (frequency inversion):  | - |
| 702-06-66                    |     | (detection):  | - |
| 702-06-67                    |     | (demodulation):   | - |
| 702-06-68                    |     | (carrier recovery):   | - |
| 702-06-69                    |     | (amplitude demodulation):                                     | - |
| 702-06-70<br>(deprecated):   |     | [linear demodulation; envelope demodulation; linear detection | - |
| 702-06-71                    |     | (coherent demodulation; synchronous demodulation):            | - |
| 702-06-72                    |     | (square law detection):                                       | - |
| 702-06-73                    |     | (frequency demodulation):                                     | - |
| 702-06-74                    |     | (phase demodulation):   | - |

**702-07**

|           |     |        |   |
|-----------|-----|--------|---|
| 702-07-01 | ( ) | (bel): | - |
| 1         |     |        | - |
| 2         | 2,  |        | - |
| 2         |     |        | - |

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702-07-02 (dB) (decibel):

1

20,

2 —

2

$/_2$

$R_2$ , :

$$10 \lg \frac{P_1}{P_2} = 10 \lg \frac{P_1}{P_2} = 20 \lg \frac{U_1}{U_2} + 10 \lg \frac{R_2}{R_1}$$

2

574

.12

27-3.

702-07-03 (Np) (neper):

1

2

dNp.

3

8,686

4

1/2.

4,343

702-07-04

(absolute power level):

702-07-05

(relative power level):

702-07-06

(absolute voltage level):

702-07-07

(transmission loss):

705

731.

702-07-08

( ) [insertion loss (of a two-port device)]:

702-07-09

( ) [insertion gain (of a two-port device)]:

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|                                     |   |    |   |  |   |
|-------------------------------------|---|----|---|--|---|
|                                     | — |    |   |  |   |
|                                     | « | ». |   |  |   |
| 702-07-10                           |   |    | (available power):  |  | - |
|                                     |   |    |   |  | - |
| 1                                   |   |    |   |  | - |
| 2                                   |   |    |   |  | - |
| 702-07-11                           |   |    | (exchangeable power):   |  | - |
|                                     |   |    |   |  | - |
| 1                                   |   |    |   |  | - |
| 2                                   |   |    |   |  | - |
| 702-07-12                           |   |    | ( ) [available  |  | - |
| power gain (of a two-port device)]: |   |    |   |  | - |
| 702-07-13                           |   |    | ( ) [exchangeable power gain                                    |  | - |
| (of a two-port device)]:            |   |    |   |  | - |
| 702-07-14                           |   |    | ( ) [matching (between a load and                               |  | - |
| source)]:                           |   |    |   |  | - |
| 1                                   |   |    |   |  | - |
|                                     |   |    |   |  | - |
| 2                                   |   |    |   |  | - |
|                                     |   |    |   |  | - |
|                                     | — |    |   |  | - |
|                                     |   |    | «adaptation en courant», «adaptation en                         |  | - |
|                                     |   |    | puissance», «adaptation en reflexion», «adaptation en tension». |  | - |
| 702-07-15                           |   |    | (reflection loss):  |  | - |
|                                     |   |    |   |  | - |
| 702-07-16                           |   |    | ( ) [transducer loss (of a two-port device)]:                   |  | - |
|                                     |   |    |   |  | - |
|                                     | — |    |   |  | - |
|                                     | « | ». |   |  | - |
| 702-07-17                           |   |    | ( ) [transducer gain (of  |  | - |
| two-port device)]:                  |   |    |   |  | - |



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|           |     |  |   |
|-----------|-----|--|---|
| 702-07-18 | ( ) | [composite loss (of a two-port device)]:                             | - |
| 702-07-19 | ( ) | [composite gain (of a two-port device)]:                             | - |
| 702-07-20 | ( ) | (incident current):  | - |
| 702-07-21 | ( ) | (incident wave):   | - |
| 702-07-22 | ( ) | (reflected current):   | - |
| 702-07-23 | ( ) | (reflected wave):  | - |
| 1         |     |  | - |
| 2         |     |  | - |
| 702-07-24 | ( ) | ( ) [(complex) reflection factor; (complex) reflection coefficient]: | - |
| 1         |     |  | - |
| 2         |     |  | - |
| 3         |     |  | - |
|           |     | $\frac{Z-Z'}{Z+Z'}$  | - |
| Z         |     | Z'   | - |
| 4         |     |  | - |
| 702-07-25 | ( ) | (return loss):   | - |

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|           |   |        |
|-----------|---|--------|
|           | $-20\lg r  = 20\lg \frac{Z-Z'}{Z+Z'}$                               |        |
|           | $Z$ —   | $Z'$ — |
| 702-07-26 | (unit pulse response; unit impulse; response weighting function):   | -      |
| 1         |   | -      |
| 2         |   | -      |
| 3         |   | -      |
| 702-07-27 | <b>(1)</b> [transfer function (1)]:                                 | -      |
| 702-07-28 | <b>(2)</b> [transfer function (2) transmittance response function]: | -      |
| 702-07-29 | (frequency response; frequency response characteristic):            | -      |
| 702-07-30 | (transfer impedance):   | -      |
| 702-07-31 | (transfer admittance):  | -      |
| 702-07-32 | (transfer immittance):  | -      |
| 702-07-33 | (transfer ratio):   | -      |
| 702-07-34 | (amplitude/amplitude characteristic):                               | -      |
| 702-07-35 | (amplitude/frequency characteristic):                               | -      |

1

2

702-07-36

(phase/frequency characteristic):

702-07-37

acteristic):

(delay/frequency char-

702-07-38

(transmission performance):

702-07-39

[error ratio; error rate ( )]:

702-07-40

; (error control; error protection):

702-07-41

(error detection):

702-07-42

(error correction):

702-07-43

( ) [distortion (of a signal)]:

702-07-44

(linear):

702-07-45

(linear distortion):

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|                    |   |   |               |
|--------------------|---|---|---------------|
| 702-07-46          | ( | ) [equalization (in analogue transmission)]:                        | -             |
| 702-07-47          | ( | ) [equalization (in digital transmission)]:                         | -             |
| 702-07-48          |   | (pre-equalization):   | -             |
| 702-07-49          |   | (amplitude/frequency distortion; attenuation/frequency distortion): | -             |
| 1                  |   |   | -             |
| 2                  |   |   | -             |
| d'affaiblissement» |   | «attenuation/frequency distortion»                                  | : «distorsion |
| 702-07-50          |   | (attenuation equalization):   | -             |
| 702-07-51          |   | (phase/frequency distortion):                                       | -             |
| 1                  |   |   | -             |
| 2                  |   |   | -             |
| 702-07-52          |   | (phase equalization):   | -             |
| 702-07-53          |   | (group delay/frequency distortion; envelope delay distortion):      | -             |
| 702-07-54          |   | (group delay equalization):   | -             |
| 702-07-55          |   | (non-linear):   | -             |
|                    |   |   | -             |
|                    |   |   | -             |
|                    |   |   | -             |
|                    |   |   | -             |
|                    |   |   | -             |

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|                   |                |   |  |   |
|-------------------|----------------|---|--|---|
| 1                 |                |   |  |   |
| 2                 |                |   |  |   |
| 702-07-56         |                | (non-linearity distortion; non-linear distortion):      |  | - |
| 702-07-57         |                | (amplitude/amplitude distortion; amplitude distortion): |  | - |
|                   |                |   |  | - |
| 702-07-58         |                | (phase/amplitude distortion):                           |  | - |
|                   |                |   |  | - |
| 702-07-59         |                | (differential phase distortion):                        |  | - |
|                   |                |   |  | - |
| 702-07-60         |                | (differential amplitude distortion differential         |  |   |
| gain distortion): |                |   |  | - |
|                   |                |   |  | - |
| 702-07-61         |                | (harmonic distortion):                                  |  | - |
|                   |                |   |  | - |
| 702-07-62         |                | (total harmonic distortion):                            |  | - |
|                   |                |   |  | - |
| 702-07-63         |                | (non-linearity correction):                             |  |   |
| 702-07-64         |                | (intermodulation)                                       |  |   |
|                   | IEV 161-06-20. |   |  |   |
| 702-07-65         |                | (intermodulation product; intermodulation component):   |  |   |
| 702-07-66         |                | (combination frequency; combination tone):              |  | - |
|                   | —              |   | $f = pf_1 - qf_2 + \dots, \quad p, q, \dots$ | - |
|                   |                |   |  | - |
| 702-07-67         |                | (intermodulation product order):                        | $ p  +  q  + \dots$                          |   |
|                   | $p, q, \dots$  | $f = pf_1 + qf_2 + \dots,$                              | $f_1, f_2, \dots$                            | - |
|                   |                |   |  | - |
| 702-07-68         |                | (intermodulation distortion):                           |  | - |
|                   |                |   |  | - |
|                   | —              |   |  |   |
| 702-07-69         |                | (quantizing distortion; quantizing noise):              |  | - |

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|           |                     |                                   |  |                     |   |   |
|-----------|---------------------|-----------------------------------|--|---------------------|---|---|
| 1         | «                   | »                                 | «  | »                   | , | - |
| 2         | «                   | »                                 | ,  |                     |   |   |
| 702-07-70 |                     | (feedback):                       |  |                     |   | - |
| 702-07-71 |                     |                                   | (positive feedback):                               | ,                   |   | - |
| 702-07-72 |                     |                                   | (negative feedback):                               | ,                   |   | - |
| 702-07-73 |                     | (feedforward):                    |  |                     |   | - |
| 702-07-74 |                     | (jitter):                         | ,  |                     |   | - |
| 1         |                     |                                   |  | IEV 704-16-13.      |   |   |
| 2         |                     | «jitter»                          |  | ( . IEV 723-06-09)  |   |   |
|           | ( . IEV 806-17-23). |                                   |  |                     |   |   |
| 3         |                     | «gigue»                           |  | ( . IEV 723-06-11). |   |   |
| 702-07-75 |                     | (time distortion):                |  |                     |   |   |
| 702-07-76 |                     |                                   | (leading-edge broadening; rise-time broadening):   |                     |   | - |
|           |                     |                                   |  |                     |   | - |
| 702-07-77 |                     |                                   | (trailing-edge broadening; decay-time broadening): |                     |   | - |
|           |                     |                                   |  |                     |   | - |
| 702-07-78 | (                   |                                   | ) [transient (adjective and noun)]                 |                     |   |   |
|           | . IEV 103-05-02,    |                                   | . IEV 702-07-781.                                  |                     |   |   |
| 702-07-79 | (                   |                                   | ) (transient, noun):                               | ,                   |   | - |
|           |                     |                                   |  |                     |   | - |
| 702-07-80 |                     | (overshoot; transient overshoot): | ,  |                     |   | - |
|           |                     |                                   |  |                     |   | - |

**702-08**

|           |   |                                      |                                   |  |  |   |
|-----------|---|--------------------------------------|-----------------------------------|--|--|---|
| 702-08-01 |   | (wanted signal; desired signal):     | ,                                 |  |  | - |
| 702-08-02 |   | (unwanted signal; undesired signal): | ,                                 |  |  |   |
| 702-08-03 | ( |                                      | ) [noise (in telecommunication)]: |  |  |   |
|           |   |                                      |                                   |  |  |   |
| 1         |   |                                      |                                   |  |  | - |
| 2         |   |                                      |                                   |  |  |   |

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|                    |  |   |   |
|--------------------|--|---|---|
| 702-08-04          | (electromagnetic disturbance)                                    |   |   |
| . IEV 161-01-05.   |  |   |   |
| 702-08-05          | (radio noise; radio-frequency noise; RF noise)                   |   |   |
| См. IEV 161-01-12. |  |   |   |
| 702-08-06          | (radio-frequency disturbance; radio disturbance; RF disturbance) |   |   |
| См. IEV 161-01-13. |  |   |   |
| 702-08-07          | (impulsive noise)  |   |   |
| См. IEV 161-02-08. |  |   |   |
| 702-08-08          | [recurrent (impulsive) noise; recurrent disturbance]:            | , | - |
|                    |  | , |   |
| 702-08-09          | (continuous noise):  | , | - |
|                    |  | , |   |
| 702-08-10          | (quasi-impulsive noise)  |   |   |
| . IEV 161-02-12.   |  |   |   |
| 702-08-11          | (natural noise)  |   |   |
| . IEV 161-01-17.   |  |   |   |
| 702-08-12          | (man-made noise)   |   |   |
| . IEV 161-01-18.   |  |   |   |
| 702-08-13          | (intrinsic noise intra-system noise):                            | , | - |
|                    |  | , |   |
| 702-08-14          | (external noise):  | , | - |
|                    |  | , |   |
| 702-08-15          | ; (background noise; hiss):                                      | , | - |
|                    |  | , |   |
| — « »              |  | , |   |
| 702-08-16          | (basic noise):   | , | - |
|                    |  | , |   |
| 702-08-17          | ( ) [click (in telecommunications)]:                             | , | - |
|                    |  | , |   |
| 702-08-18          | ( ) [buzz (in telecommunications)]:                              | , | - |
|                    |  | , |   |
| 702-08-19          | ( ) [crackle (in telecommunications)]:                           | , | - |
|                    |  | , |   |
| 702-08-20          | [hum (in telecommunications); supply noise]:                     | , | - |
|                    |  | , |   |
| 702-08-21          | ; (telegraph noise; key clicks):                                 | , | - |
|                    |  | , |   |
| 702-08-22          | (switching noise):   | , |   |
| 702-08-23          | (microphonics; microphony):                                      | , |   |
|                    |  | , |   |
| 702-08-24          | (parasitic oscillation)  |   |   |
| . IEV 161-06-08.   |  |   |   |
| 702-08-25          | (singing):   | , |   |
|                    |  | , |   |
| 702-08-26          | (singing point):   |   | - |
|                    |  | , |   |
| 702-08-27          | ( ) [birdies (in telecommunications); whistling]:                | , | - |
|                    |  | , | - |
|                    |  | , |   |
| 702-08-28          | (intermodulation noise):   | , | - |

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|                  |  |   |
|------------------|--|---|
| 702-08-29        | (electromagnetic interference; EMI)      |   |
| . IEV 161-01-06. |  |   |
| 702-08-30        | (interfering signal)                     |   |
| . IEV 161-01-04. |  |   |
| 702-08-31        | ( ) [interference (to a wanted signal)]: | - |
| 702-08-32        | (phase interference wave interference)   |   |
| . IEV 103-10-27. |  |   |
| 702-08-33        | (intersymbol interference):              | - |
| 702-08-34        | (interchannel interference):             | - |
|                  | : « » ; « - » —                          |   |
| 702-08-35        | (crossmodulation)                        |   |
| . IEV 161-06-19. |  |   |
| 702-08-36        | (sideband interference):                 | - |
| 702-08-37        | ( ) [echo (in telecommunication)]:       | - |
| 702-08-38        | (random noise)                           |   |
| . IEV 161-02-14. |  |   |
| 702-08-39        | (white noise; flat random noise):        |   |
| 702-08-40        | (coloured noise):                        | - |
| 702-08-41        | (weighted noise):                        |   |
| 702-08-42        | (psophometrically weighted noise):       | - |
| 0.41 ITU-T       | 468 CCIR                                 |   |
| 702-08-43        | (triangular noise):                      | - |
| 702-08-44        | (pink noise):                            | - |
| 702-08-45        | (thermal noise Johnson noise):           | - |
| 702-08-46        | (shot noise):                            | - |

1  
2



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|           |   |   |
|-----------|---|---|
| 702-08-47 | (flicker noise):  | - |
| 1         |   |   |
| 2         |   |   |
|           | 1/f   |   |
| 702-08-48 | 1/f (1/f noise):  | - |
| 702-08-49 | ; (quantum noise; photon noise):  | - |
| 702-08-50 | (gaussian noise):   | - |
| 1         |   |   |
| 2         |   |   |
| 3         |   |   |
| 702-08-51 | ( ) [equivalent noise voltage (of a one-port device) noise electromotive force (of a one-port device)]: | - |
| 702-08-52 | ( ) ( ) $R_{eq}$ [(equivalent) noise resistance (of a one-port device)]:                                | - |
|           | $R_{eq}$  | : |
|           | 290 °   |   |
| Af        |   |   |
| 702-08-53 | ( ) ( ) [(exchangeable) noise power (of a one-port device)]:  | - |
| 1         |   |   |
| 2         |   |   |

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702-08-54 ( ) [spot noise temperature (of a one-port)]: -

- 1
- 2
- 3
- 4

702-08-55 ( ) [mean noise temperature (of a one-port device)]:

702-08-56 ( ) **F(f)**, [equivalent spot noise temperature (of a linear two-port device)]:

- 1
- 2

702-08-57 ( ) **F(f)**; [spot noise factor (of a linear two-port device); spot noise figure (of a linear two-port device)]:

290 °

1 :  $F(f)$

$$F(f) = 1 + M$$

2 «noise figure», «noise factor»

702-08-58 ( ) ( ) [mean (equivalent) noise temperature (of a linear two-port device)]:

702-08-59 ( ) ( ) **(F)** [(mean) noise factor (of a linear two-port device); (mean) noise figure (of a linear two-port device)]:

290 °

|                |   |          |   |
|----------------|---|----------|---|
| 1              | $F$   | :        |   |
| 2              | «noise factor»,                                 | ,        | «noise figure»,   |
| 702-08-60      | (   | )        | [effective noise bandwidth (of a linear two-port device)]:                |
|                | $G(f)$ ,  | $G_{m'}$ |   |
|                | $f = \frac{1}{G_{m0}} \int_0^{\infty} G(f) df,$ |          |   |
| 702-08-61      | /   | ;        | <b>S/N</b> (signal-to-noise ratio; signal/noise ratio):                   |
| 702-08-62      | (   | )        | <b>(<math>EIN_0</math>)</b> (bit energy to noise spectral density ratio): |
| 702-08-63      | /   |          | (signal-to-interference ratio; signal/interference ratio):                |
| 702-08-64      |   |          | (immunity to interference):   |
| 702-08-65      |   |          | (electromagnetic environment)   |
| IEV 161-01-01. |   |          |   |
| 702-08-66      |   |          | (electromagnetic compatibility; EMC)                                      |
| IEV 161-01-07. |   |          |   |
| <b>702-09</b>  |   |          |   |
| 702-09-01      | (   | )        | [hardware (in telecommunications)]:                                       |

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|                    |                                 |                                |   |
|--------------------|---------------------------------|--------------------------------|---|
| 702-09-02          | (                               | ) [software (in telecommunica- |   |
| tions)];           | ,                               | ,                              | , |
| 702-09-03          | (functional unit):              |                                | - |
|                    | (                               | ),                             |   |
| 702-09-04          | (electric circuit)              |                                |   |
| . IEV 151-12-01.   |                                 |                                |   |
| 702-09-05          | (electrical network)            |                                |   |
| . IEV 151-12-02.   |                                 |                                |   |
| 702-09-06          | (active):                       | ,                              |   |
| 702-09-07          | (passive):                      | ,                              |   |
| 702-09-08          | (one-port)                      |                                |   |
| . IEV 131-12-64.   |                                 |                                |   |
| 702-09-09          | (two-terminal):                 | ,                              |   |
| 702-09-10          | (two-port):                     |                                |   |
| —                  | «two-port»                      | «biporte»                      | - |
| (. IEV 131-12-65). |                                 |                                |   |
| 702-09-11          | (two-terminal-pair):            | ,                              | - |
| 702-09-12          | (n-port):                       |                                | - |
| 702-09-13          | (transducer):                   | ,                              | - |
| 702-09-14          | (delay line):                   | ,                              | - |
| 702-09-15          | (attenuator):                   | ,                              | - |
| —                  |                                 |                                |   |
| 702-09-16          | (phase shifter; phase changer): | ,                              | - |
| 702-09-17          | (filter):                       | ,                              | - |
| 702-09-18          | ;                               | (distribution frame):          | - |
| 1                  |                                 |                                |   |
| 2                  |                                 | , U-                           |   |

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|                  |  |                    |   |
|------------------|--|--------------------|---|
| 702-09-19        | (amplifier):   |                    |   |
| 702-09-20        | (low-noise amplifier; LNA):  |                    | - |
|                  | /  |                    | - |
| 702-09-21        | [buffer amplifier buffer (stage)]:   |                    | - |
| 702-09-22        | (oscillator)   |                    |   |
| . IEV 151-13-51. |  |                    |   |
| 702-09-23        | (relaxation oscillator):   |                    | - |
| 702-09-24        | (multivibrator):   |                    | - |
| 702-09-25        | (trigger circuit):   |                    | - |
| (                | )  |                    | - |
| 702-09-26        | [bistable trigger circuit; bistable latch; bistable circuit; bistable trigger (deprecated) flip-flop (strongly deprecated)]: |                    | - |
|                  | — «flip-flop»  | «bistable circuit» |   |
|                  | «monostable circuit».  |                    |   |
| 702-09-27        | [monostable trigger circuit; monostable circuit; flip-flop (strongly deprecated)]:   |                    | - |
|                  | — «flip-flop»  | «bistable circuit» |   |
|                  | «monostable circuit».  |                    |   |
| 702-09-28        | (signal generator):  |                    | - |
| 702-09-29        | (master oscillator):   |                    | - |
| 702-09-30        | ; (clock):   |                    | - |
| 702-09-31        | (frequency synthesizer):   |                    | - |
| 702-09-32        | (frequency multiplier):  |                    | - |
| 702-09-33        | (frequency divider):   |                    | - |
| 702-09-34        | (integrator; integrating circuit):   |                    | - |
| 702-09-35        | (differentiator; differentiating circuit):   |                    | - |
| 702-09-36        | [(frequency) mixer]  |                    |   |
| . IEV 151-13-69. |  |                    |   |

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|                  |  |   |
|------------------|--|---|
| 702-09-37        | (frequency changer; frequency converter):                              | - |
| 702-09-38        | (modulator modulating stage)   | - |
| . IEV 151-13-67. |  |   |
| 702-09-39        | (detector):  | - |
| 702-09-40        | (demodulator):   | - |
| 702-09-41        | (frequency discriminator):   | - |
| 702-09-42        | (phase detector):  | - |
| 702-09-43        | (encoder):   | - |
| 702-09-44        | (decoder):   | - |
| 702-09-45        | (code converter; transcoder)   | - |
| . IEV 314-02-12. |  |   |
| 702-09-46        | [serial-to-parallel converter; deserializer; staticizer (deprecated)]: | - |
| 702-09-47        | [parallel-to-serial converter; serializer; dynamicizer (deprecated)]:  | - |
| 702-09-48        | [(logic) gate; logic element]:   | - |
| 702-09-49        | (combinatorial circuit):   | - |
| 702-09-50        | (sequential circuit):  | - |
| 702-09-51        | (logic circuit):   | - |
| 702-09-52        | (amplitude discriminator):   | - |

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|           |   |   |                           |
|-----------|---|---|---------------------------|
| 702-09-53 | (quantizer):  | , | -                         |
| 702-09-54 | (limiter):  | , | -                         |
|           | —   | , | -                         |
| 702-09-55 | (clipper):  | , | -                         |
| 702-09-56 | (slicer):   | , | -                         |
| 702-09-57 | (base limiter):   | , | -                         |
| 702-09-58 | (clamp):  | , | -                         |
| 702-09-59 | (pulse regenerator):  | , | -                         |
| 702-09-60 | (compressor):   | , | -                         |
| 702-09-61 | (expander):   | , | -                         |
| 702-09-62 | (comparator):   | , | -                         |
| 702-09-63 | (equalizer):  | , | -                         |
|           | —   | , | -                         |
| 702-09-64 | (corrector):  | , | -                         |
|           | —   | , | -                         |
| 702-09-65 | (differential coupler; hybrid coupler):   | , | -                         |
|           |   | , | -                         |
| 1         |   | , | -                         |
| ;         |   | , | -                         |
| 2         |   | , | -                         |
| 702-09-66 | (hybrid transformer; hybrid coil; induction coil):                                | , | -                         |
| 702-09-67 | (balancing network artificial balancing line):                                    | , | -                         |
| 702-09-68 | ( ) [frequency range (of an equipment)]:  | , | -                         |
|           | —   | , | -                         |
| 702-09-69 | ( ) [dynamic operating range (of an equipment); working range (of an equipment)]: | , | -                         |
|           | —   | , | -                         |
|           | «working range»   | , | «dynamique d'un appareil» |

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|          |           |
|----------|-----------|
| .....    | 702-07-31 |
| .....    | 702-09-06 |
| .....    | 702-03-03 |
| .....    | 702-04-54 |
| .....    | 702-04-16 |
| .....    | 702-04-15 |
| .....    | 702-09-15 |
| .....    | 702-05-09 |
| - .....  | 702-05-06 |
| .....    | 702-07-01 |
| .....    | 702-05-03 |
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## X

|                                  |           |
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| xdB bandwidth (of a signal)..... | 702-01-05 |
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