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INTERSTATE COUNCIL FOR STANDARDIZATION, METROLOGY AND CERTIFICATION
(ISC)

IEC 60050-731— 2017

731

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(IEC 60050-731:1991 + .1(1992), IDT)

Москва
Стандартинформ
2020

IEC 60050-731—2017

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5 IEC 60050-731:1991 «
 731. » («International Electrotechnical Vo-
 cabulary — Chapter 731: Optical fibre communication», IDT), .1 (1992)

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731-07	
731-08	

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731

International electrotechnical vocabulary. Chapter 731. Optical fibre communication

— 2021—03—01

731-01

731-01-01 / (electromagnetic radiation):

1

2

731-01-02 (photon): $h\nu$

, h — ν —

731-01-03 (optical radiation):

1

1

731-01-04 / (light / visible radiation):

1 —

380 800

2 —

«light»,

731-01-05 () / () (infrared / IR (abbreviation)):

780

731-01-06 () / () (ultraviolet / UV (abbreviation)):

1

400

731-01-07 (optical spectrum):

731-01-06 (monochromatic radiation):

1.

2.

731-01-09 (coherence):

731-01-10 (coherent):

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731-01-11	(spatial coherence space coherence):	,	
731-01-12	(time coherence / temporal coherence):	,	
731-01-13	(partial coherence):	,	-
731-01-14	(degree of coherence):	,	-
1 —	V	2-	-
2 —	$\frac{\Delta \sim \Delta_{min}}{\Delta + \Delta_{min}}$	S_{mm}	0.88:
	0.88		0.88.
731-01-15	(coherent radiation):	,	
731-01-16	(coherent area):	,	-
731-01-17	(coherence length):	,	-
731-01-18	(coherence time):	,	-
1 —			
2 —	/ - . ^ —		-
731-01-19	(incoherence):	,	
731-01-20	(incoherent radiation):	,	
731-01-21	(radiant energy):	,	-
731-01-22	/ / (radiant power/optical		
power/optical flux/radiant flux):			
731-01-23	(radiant intensity):	,	-
731-01-24	L (radiance brightness (deprecated). L):	,	-
731-01-25	/ (irradiance/intensity (deprecated)):	,	-

731-01-26	S (power flux density radiant flux density. S):	-
731-01-27	() (intensity):	-
731-01-28	(radiant emittance/radiant exitance):	-
731-01-29	(spectral radiance):	-
731-01-30	(spectral irradiance):	-
731-01-31	/ (conservation of radiance/conservation of brightness (deprecated) theorem (deprecated)):	-
	$L \cdot \cos^2 \theta = L \cdot \cos^2 \theta'$	
	$L \cdot \cos^2 \theta = L \cdot \cos^2 \theta'$	
731-01-32	(geometric optics/ray optics):	-
731-01-33	/ (physical optics/wave optics):	-
731-01-34	(gaussian beam):	-
	$E(r) = E(0) \exp[-2r^2/w^2]$	
731-01-35	/ (beam diameter/beam width):	-
731-01-36	(beam divergence):	-
1 —		
2 —		
731-01-37	(Lambert's cosine law/cosine emission law):	-
731-01-38	(Lambertian radiator/Lambertian source):	-
731-01-39	(Lambertian reflector):	-

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731-01-40	(collimation):	,	.
731-01-41	(acousto-optic effect):	,	.
731-01-42	(electro-optic effect):	,	.
1 —			
2 —	«	»	«
3 —			».
731-01-43	(magneto-optic effect):	,	.
1 —			.
2 —			.
731-01-44	(fibre optics):	,	.
731-01-45	(optical waveguide):	,	.
731-01-46	(thin film optical waveguide):	,	.
731-01-47	() (distortion (of a signal)):	,	.
731-01-48	(attenuation/loss):	,	.
1			.
2			.
731-01-49	() (transmission loss (of an optical path)):	,	.
731-01-50	() (insertion loss (of an optical component)):	,	.
731-01-51	() (spectral window (of an optical waveguide)):	,	.
731-01-52	() (bandwidth (of an optical fibre)):	,	.
731-01-53	/ (transfer function/frequency response):	,	.

1 —	,	«	»	-
2 —	—	.	.	-
731-01-54		(baseband transfer function)		-
baseband response function):	,	,	.	-
731-01-55		(impulse response):		-
—	—	—	—	-
731-01-56		(Gaussian pulse):	,	-
—	—	:		-
		$f(t) = A \exp[-(f/\)^2 j]$.		-
—	—	1/	.	-
731-01-57		0.5 (full width half maximum/ FWHM (abbreviation):		-
		50 %	.	-
—	—	0.5	,	-
.	,	.	.	-
731-01-58		0,5 (full duration half maximum (of a pulse)		-
FDHM (abbreviation):	,	50 %		-
731-01-59		(opto-electronic):	,	-
,	:	.	.	-
1 —	—	,	.	-
2 —		«	»	-
•	».	.	.	-
731-01-60		(electroluminescence):	,	-
—	—	—	—	-
731-01-61		(photo-electric effect):		-
	(. .),		-
731-01-62		/		-
internal photo-electric effect):	,		(photo-conductivity	-
731-01-63		(photo-emissive effect external photo-electric		-
effect):	,	,		-
731-01-64		(photo-voltaic effect):	,	-
731-01-65		(quantum noise photon noise):	.	-

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731-01-66	(optically active material):	-
731-01-67	(fused quartz):	-
731-01-68 (SiO ₂).	(fused silica/vitreous silica):	-
731-02		
731-02-01 ()	(optical fibre):	-
731-02-02	(singlemode fibre):	-
731-02-03	(multimode fibre):	-
731-02-04 ()	(core):	-
731-02-05 ()	(cladding):	-
731-02-06	(refractive index profile):	-
731-02-07	(step index profile):	-
731-02-08	(step index fibre):	-
731-02-09	(equivalent step index profile ESI-profile):	-
731-02-10	(refractive index difference):	(ESI -
731-02-11	(graded index profile):	-
731-02-12 (deprecated):	(power-law index profile/alpha profile)	-
	$2(\alpha) \ll n_f^2 - 2(\Delta a)^{\alpha} j.$	
()—	s ;	
—	:	
—	:	
—	:	
731-02-13	(profile parameter):	-

731-02-14	(parabolic profile):	-
731-02-15	(graded index fibre):	-
731-02-16	(index dip):	-
731-02-17	(homogeneous cladding):	-
731-02-18	(depressed cladding):	-
731-02-19	(matched cladding):	-
731-02-20	(refractive index contrast.):	-
	$4 \frac{-\sigma^2}{2 ?}$	-
731-02-21	(weakly guiding fibre):	-
731-02-22	(core area):	-
	1 %.	-
	(-
)	-
	:	-
	$2 = - 2)$	-
	:	-
	(-
	0-0.05).	-
731-02-23	() (reference surface (of an optical fibre)):	-
	,	-
	,	-
731-02-24	(core centre):	-
	,	-
	,	-
	1—	-
	2 —	-

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731-02-25	(cladding centre):	-
1 —		
2 —		
731-02-26	(reference surface centre):	
1 —		
2 —		
731-02-27	(fibre axis/optical axis):	
731-02-28	(core diameter):	
731-02-29	(cladding diameter):	
731-02-30	(reference surface diameter):	
731-02-31	(average core diameter):	
731-02-32	(average cladding diameter):	
731-02-33	(average reference surface diameter):	
731-02-34	(core diameter tolerance):	-
731-02-35	(cladding diameter tolerance):	-
731-02-36	(reference surface diameter tolerance):	-
731-02-37	(core tolerance field):	-
731-02-38	(cladding tolerance field):	-
731-02-39	(reference surface tolerance field):	-
731-02-40	(non-circularity of core):	-
731-02-41	(non-circularity of cladding):	-
731-02-42	(non-circularity of reference surface):	-
731-02-43	/ (core/cladding concentricity error):	-
1 —		
2 —		
731-02-44	/ (core/reference surface concentricity error):	-
1 —		
2 —		

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731-02-45	(all-glass fibre):	,	-
731-02-46	(all-silica fibre):	,	-
731-02-47	(all-plastic fibre):	,	-
731-02-48	(plastic clad silica fibre/PCS-fibre):	,	-
731-02-49	(preform):	,	-
731-02-50	(rod-in-tube technique stav-rorteknik):	,	-
731-02-51	(double crucible technique):	,	-
731-02-52	(ion exchange technique):	,	-
731-02-53	(chemical vapour deposition technique.	,	-
CVD):			
731-02-54	(vapour phase axial deposition technique. VAD):	,	-
731-02-55	(barrier layer):	,	-
731-02-56	(fibre buffer):	,	-
731-02-57	(primary coating):	,	-
731-02-58	/ (secondary coating/fibre jacket):	,	-

731-03

731-03-01	(light ray):	,	-
1 —			
2 —			
3 —			
731-03-02	(wavefront):	,	-
731-03-03	(plane wave):	,	-
731-03-04	(mode):	,	-
731-03-05	(interference):	,	-
731-03-06	(guided wave):	,	-

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731-03-07	(surface wave);	-
731-03-08	() (isotropic (for electromagnetic waves));	-
731-03-09	() (anisotropic (for electromagnetic waves));	-
731-03-10	(optic axis):	-
	«optical axis».	
731-03-11	() (refractive index (of a medium) index of refraction n):	-
731-03-12	(optical path length):	-
731-03-13	(optical thickness):	-
731-03-14	(absorption):	-
	« »	-
	:)	:
731-03-15	(microbending):	-
731-03-16	(microbend loss):	-
731-03-17	(macrobending):	-
731-03-18	(macrobend loss):	-
731-03-19	(reflection):	-
731-03-20	(Fresnel reflection):	-
731-03-21	(angle of incidence):	-
731-03-22	/ (total reflection):	-
731-03-23	(critical angle):	-
	()	
	(), arcsin ()	

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731-03-37	(Rayleigh scattering):	
731-03-38	(nonlinear scattering):	
731-03-39	(material scattering):	
731-03-40	(fibre scattering):	
731-03-41	/	(propagation
coefficient/propagation constant (term deprecated) (USA)):		
731-03-42	a (attenuation coefficient/attenuation constant (term deprecated)):	
731-03-43	, J (phase coefficient/phase constant (term deprecated) (USA) 0):	
731-03-44	(axial propagation coefficient):	
731-03-45	(differential mode attenuation):	
731-03-46	(differential mode delay multimode group delay):	
731-03-47	/ (equilibrium mode distribution/steady state condition);	
731-03-48	/ (equilibrium length/equilibrium mode distribution length):	
731-03-49	(-equilibrium mode distribution):	
731-03-50	(mode coupling):	
731-03-51	(coupled modes):	
731-03-52	(evanescent field):	

731-03-53

(bound mode):

1

—
()—
(0)—

2
3

731-03-54

(transverse electric mode. mode):

731-03-55

(transverse magnetic mode, mode):

731-03-56

(transverse electromagnetic mode. mode):

731-03-57

(hybrid mode):

731-03-58

(linearly polarised mode. LP mode):

731-03-59

(unbound mode):

731-03-60

(cladding mode):

731-03-61

(radiation mode): 8

731-03-62

(leaky modertunnelling mode):

731-03-63

V (normalised frequency/V number. V):

$$V^2 = \frac{k^2}{k_0^2} - \beta^2$$

1 —
1300 —
2 —

()².

731-03-77 (profile dispersion);

731-03-78 (profile dispersion parameter):

$n \cdot X d A$

n_v :
W, « , eXfdn, /dX),

731-03-79 (waveguide dispersion):

(/).

731-03-80 (pulse broadening pulse, dispersion pulse spreading):

1 —
2 —

731-03-81 (modal distortion/modal dispersion (deprecated)): 8

731-03-82 (intramodal distortion, chromatic distortion):

731-03-83 (radiation angle/output angle):

731-03-84 (acceptance angle):

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$$\arcsin \left[\frac{\sqrt{2} \left(1 - n^2 \right)^{1/2}}{2} \right]$$

() —
2 —

731-03-85

NA (numerical aperture/NA (abbreviation)):

731-03-86
aperture):

(maximum theoretical numerical

MUxfh» («? -"if2-

, —
2 —

731-03-87

(launch numerical aperture. LNA):

731-03-88
an optical fibre)):

() (radiation pattern (of

731-03-89

(near-field region):

731-03*90
near-field pattern):

(near-field radiation pattern/

731-03-91
field diffraction pattern Fresnel diffraction pattern):

(near-

731-03-92

(far-field region);

731-03-93
field pattern):

(far-field radiation pattern/far-

731-03-94
(far-field diffraction pattern Fraunhofer diffraction pattern):

731-03-95

(equilibrium radiation pattern):

731-03-96

(effective mode volume):

731-04

731-04-01

(optical cable/optical fibre cable):

731-04-02	(multifibre cable flerfiberkabel):	-
731-04-03	(optical cable assembly/cable assembly):	-
731-04-04	(tight jacketed cable):	-
731-04-05	(loose cable structure):	-
731-04-06	(ribbon cable):	-
1 —		;
2 —		
731-04-07	(loose tube cable):	-
731-04-08	(grooved cable slotted core cable):	co
731-04-09	(fibre bundle/bundle):	-
731-04-10	() (packing fraction (of a fibre bundle)):	-
()		
731-05		
731-05-01	() (optical fibre connector):	-
731-05-02	(ferrule):	-
731-05-03	(joint):	-
731-05-04	(multifibre joint):	-
731-05-05	(optical fibre splice/splice/optical splice):	-
() «slicing» ()		«to slice»
731-05-06	(fusion splice):	-
731-05-07	(mechanical splice):	-

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731-05-08		«	»/	
(optical fibre pigtail/launching fibre):		,		-
	—	«	» —	,
«	»			
731-05-09	(tapered fibre):	,		-
731-05-10	(optical fibre coupler/optical coupler/branching device):	,		-
	—	,	,	
731-05-11	(directional coupler):			-
				-
731-05-12	(star coupler):	,		-
		,		
731-05-13	(tee coupler):	,		-
731-05-14	(Y-coupler):			-
731-05-15	(optical combiner):			-
	,			
731-05-16	(beamsplitter):			-
731-05-17	(isolator):	,		-
	—			-
731-05-18	(optical filter):			-
	,			
731-05-19	(diffraction grating):	,		-
		,		-
		,		
731-05-20	(dichroic filter):	,		-
	—			
731-05-21	(dichroic mirror):	,		-
731-05-22	(interference filter):	,		-
731-05-23	(mode filter):	,		-
731-05-24	(mode scrambler/mode mixer):			-
	—			

731-05-25	(cladding mode stripper mode stripper):	,
1 —	,	
2 —	«mode stripper» («	»)
«cladding mode stripper* («	»).	
731-05-26	(antireflection coating):	-
(),	
—	:	-
731-05-27	(index matching material):	,
731-05-28	(coupling loss):	,
731-05-29	(coupler loss):	,
731-05-30	(coupling efficiency):	-
731-05-31	(splice loss):	,
731-05-32	(intrinsic joint loss):	,
—	,	
731-05-33	(extrinsic joint loss misalignment loss):	-
731-05-34	(longitudinal offset loss/gap loss):	-
731-05-35	(angular misalignment loss):	-
731-05-36	(lateral offset loss/	
transverse offset loss):	,	-
731-06		
731-06-01	(spontaneous emission):	,
—	:	
731-06-02	(superluminescence superradiance):	,

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731-06-03	(stimulated emission):	-
731-06-04	(light emitting diode. LED):	-
731-06-05	(surface emitting light emitting diode/ Burrus diode):	-
731-06-06	(edge-emitting light emitting diode. ELED):	-
731-06-07	(superluminescent LED superradiant diode. SRD):	-
731-06-08	(laser):	-
	«Lasers	«Light Amplification by Stimulated
	Emission of Radiation».	
731-06-09	(injection laser diode. ILD/ semiconductor laser/diode laser):	-
731-06-10	(multimode laser):	-
731-06*11	(injection locked laser):	-
731-06-12	(homojunction):	-
731-06-13	(heterojunction):	-
731-06-14	(active laser medium, laser medium):	-
731-06-15	(optical cavity, resonant cavity):	-
731-06-16	(emissivity):	-
731-06*17	(source power efficiency emissionsverkningsgrad):	-
731-06*18	(lasing threshold):	-
731-06*19	(threshold current (of a laser diode)):	-
731-06-20	(peak intensity wavelength):	-

731-06-21		(spectral line):	-
731-06-22		(spectral linewidth linjebredd):	-
731-06-23		(line spectrum):	-
731-06-24		(spectral width):	-
731-06-25		(mode hopping/mode jumping):	—
731-06-26		(chirping):	-
731-06-27		(optical detector):	-
731-06-28	/	(photodiode/diode photodectector):	- -n
731-06-29	PIN- - N-	(PIN photodiode):	- -
731-06-30	/	(avalanche photodiode. APD):	- -
731-06-31	PIN-FET PIN-	(PIN-FET integrated receiver):	- -
731-06-32		(photocurrent, light current):	-
731-06-33		(dark current):	-
731-06-34		(quantum efficiency):	-
1 —			—
2 —			-
731-06-35		(differential quantum efficiency):	-
731-06-36		(responsivity):	-
1 —	A/	8	
2 —		«sensitivity»	«responsivity».

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731-06-37	(spectral responsivity):	-
731-06-38	(detection threshold sensitivity);	-
1 —	—	
2 —	«sensitivity»	«responsivity».
731-06-39	(shot noise hagelbrus):	-
731-06-40	(noise equivalent power. NEP):	-
731-06-41	D (detectivity. D):	-
731-06-42	D^* (normalised detectivity/specific detectivity/ D -star. D_y):	-
D —	$D^* = D \cdot A \cdot hf$	
—	;	
731-06-43	(integrated optical circuit, IOC):	-
731-06-44	(fibre optic terminal device):	-
—	(« »).	
731-06-45	(transmit fibre optic terminal device):	-
731-06-46	(receive fibre optic terminal device):	-
731-07		
731-07-01	() (reference test method (for optical fibres). RTM):	-
731-07-02	(alternative test method (for optical fibres). ATM/ practical test method):	-
731-07-03	(Fresnel reflection method):	-

731-07-04	(near-field scanning technique):	-
731-07-05	(four concentric circle near-field template):	-
731-07-06	(four concentric circle refractive index template):	-
731-07-07	(cutback technique):	-
731-07-06	(optical time domain reflectometry. OTDR/backscattering technique):	-
731-07-09	(interferometer):	-
731-07-10	(slab interferometry/axial interference microscopy):	-
731-07-11	(transverse interferometry):	-
731-07-12	(monochromator):	-
731-07-13	(refracted near-field method/refracted ray method):	-
731-08		
731-06-01	(optical fibre link):	-
731-06-02	(optical data bus):	-
731-08-03	(wavelength division multiplexing. WDM):	-

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731-08-04	(optical repeater):	,	
731-08-05	(optical regenerative repeater):	-	
731-08-06	(attenuation-limited operation):	-	
731-08-07	(bandwidth-limited operation):	-	
731-08-08	(distortion limited operation):	-	
731-08-09	(quantum-noise-limited operation):	-	
731-08-10	(modal noise/speckle noise):	-	

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- 731-02-12

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