

Chemistry

Electroactivity of Elements

density	1 g/cm ³
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Substance

pK	Constance of strength acids	0.05
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Engineering

all Subcategories

m	mass	7 kg
t	Time	1 h
v	velocity	5 m/s

Construction engineering

F	force	20 N
J	momentum of inertia	5 kg*m ²
M	torque	4 N*m
f	frequency	500 Hz
frot	frequency of rotation	5 Hz
r	radius	8 cm
	angular velocity	1 rad/s

Electrical engineering

A	cross-sectional area	10 mm ²
B	magnetic flux density	1 T
C	capacitance	1 F
E	electric field strength	100 V/m
F	force	3 N
I	electrical current	5 A
P	power	1000 W
Q	electric charge	3 C
R	resistance	10 Ohm
U	voltage	220 V
W	electrical work	7 J
f	frequency	50 Hz
	permittivity	2 F/m
	efficiency	30 %
	wavelength	6 cm
	angular velocity	5 rad/s

Mechanical engineering

E	energy	400 J
F	force	3 N
Nf	Normal force	10 N
d	diameter	10 cm

Engineering

Mechanical engineering

h	height	500 m
n	Revolutions per time	600 1/min
r	radius	20 m
s	Way distance	60 km
v1	Top speed	150 m/s

Mathematics

all Subcategories

A	area	16 cm ²
D	great diameter	10 cm
a	length of a side	5 cm
b	length of a side	7 cm
c	length of a side	5 cm
d	small diameter	4 cm
l	length	9 cm
n	real number	5
r	radius	1 cm
ri	radius of the inscribed circle	3 cm
w	width	4 cm
	plane angle	60 °
	plane angle	45 °
	radius of the inner circle of a triangle	1 cm

Geometry

A	area	4 cm ²
C	circumference	10 cm
D	outer diameter	20 cm
V	volume	5 mm ³
d	diameter	6 cm
h	hight	1 mm
x	distance	10 cm
y	distance	7 cm

Planimetry

	plane angle opposite to side b	40 °
	plane angle opposite to side c	110 °

Stereometry

A	surface of a body	10 cm ²
AL	lower surface area	7 cm ²
AU	upper surface area	4 cm ²
C	circumference	10 cm

Mathematics

Stereometry

V	volume	60 cm ³
d	diameter	4 cm
h	height	10 cm

Trigonometry

R	radius of the circumscribed circle	6 cm
	plane angle	90 °

Others

all Subcategories

V	Volume	1 L
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Miscellaneous (unassigned)

	density	1 g/cm ³
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Statistics (Mean Values)

n	real number	5
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Physics

all Subcategories

F	force	1 N
T	thermodyn. temperature	273.15 K
V	Volume	1 m ³
a	acceleration	2 m/s ²
d	distance	1 m
m	mass	3 kg
m1	first mass	10 g
m2	second mass	15 g
t	time	2 s
v	velocity	2 m/s
x0	Start position	0 m
	plane angle	30 °
	plane angle	30 °
	plane angle	30 °
	plane angle	45 °

Classical mechanics

J	moment of inertia	8 kg*m ²
P	power	1 W
T	torque	5 N*m
W	work, energy	3 J
h	height	1 m
r	radius	3 m
v0	velocity at beginning	1 m/s

Physics

Classical mechanics

density	1 kg/m ³
inclination angle	60 °
angular velocity	1 rad/s

Electro Magnetism

A	area	7 mm ²
B	magnetic flux density	2 T
C	capacitance	3 F
E	electric field strength	1E+05 V/m
H	magnetic field strength	4 A/m
I	electrical current	4 A
L	inductance	3 H
P	power	10 W
Q	electric charge	5E-10 C
U	electric potential difference	20 V
W	energy / work	4 kW*h
f	frequency	50 Hz
l	length	8 m
p	momentum	4 kg*m/s
r	radius	5 mm
	permittivity	3 F/m
μ	permeability	1 H/m

Hydromechanics

A1	cross-sectional area at position 1	50 cm ²
A2	cross sectional area at position 2	10 cm ²
Q	volumetric flow rate	2 m ³ /s
h	hight	1 m
p	pressure	1E+05 Pa
v1	velocity at position 1	1 m/s
v2	velocity at position 2	5 m/s
	density	1 g/cm ³

Kinematics

d	distance	20 m
m	mass	2 kg
p	momentum	5 kg*m/s
r	distance, radius	2 m
v0	velocity at beginning	15 m/s
v01	initial velocity of mass m1	10 m/s
v02	initial velocity of mass m2	7 m/s
v1	velocity of mass m1	8 m/s

Physics

Kinematics

v_2	velocity of mass m_2	5 m/s
	angular velocity	1 rad/s

Nuclear physics

T_{half}	half life time	10 h
	decay constant	4 1/s
	cross section	1E-24 m ²

Optics and Acoustics

A	area	8 m ²
T	period of oscillation	5 s
f	frequency	1000 Hz
n	refractive index	1
x	position	3 m
y	amplitude	2 cm
	wavelength	1000 Å
	wavenumber	1 1/m

Thermodynamics

E_k	kinetic energy	3 J
n	number of moles	5 mol
p	pressure	9 Pa
t	Celsius Temperatur	20 °C