

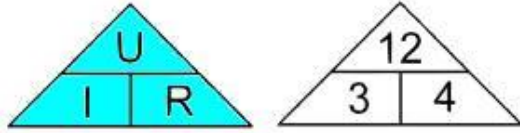
TEKENS + symbolen

R weerstand

S Siemens

I stroom

U spanning



Q lading

$$Q = I \times t$$

t tijd

Rt totale weerstand

$$R_t = R_1 + R_2$$

Rv vervangings weerstand

$$R_v = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2}}$$

Σ somma

$$\Sigma I = 0$$

$$\Sigma U = 0$$

P vermogen

$$P = U \cdot I$$

$$P = U^2 / R$$

$$P = I^2 \cdot R$$

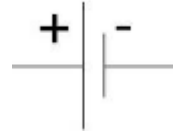
E elektrische energie in joule

W vermogen in Watt-sec.

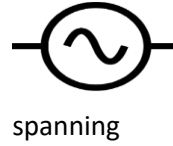
$$E = W$$

$$W = P \cdot t$$

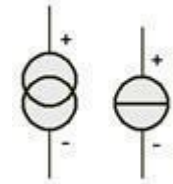
EMK elektro mechanische kracht



Batterij



Wisselstroom of-
spanning

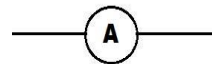


Stroombron ,vaste

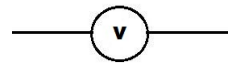
stroomsterkte



Meter



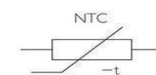
A = stroommeter



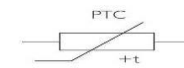
V = voltmeter



weerstand



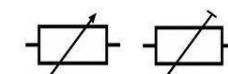
Ntc



Ptc



Ldr



R verstelbaar, R instel

baar



Stroomrichting

TEKENS + symbolen

Ri inwendige weerstand

Uk klemspanning

Ua aangelegde spanning

Ui inwendige spanning

$$U_K = U_a - U_i$$

$$U_{eff} = U_{max} * 0.707$$

$$U_{gem} = U_{max} * 0.64$$

E veldsterkte

$$E = V/m$$

Wet van Lenz

f frequentie

λ golflengte

$$f = 300 / \lambda$$

$$\lambda = 300 / f$$

$$f = p/s$$

$$f = p/t$$

$$f = 1/t$$

$$BB \text{ CW} = \text{toon}$$

$$BB \text{ AM} = 2 * f_{mod}$$

$$BB \text{ SSB} = f_{mod}$$

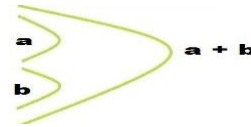
$$BB \text{ FM} = 2 * f_{mod} + 2 * \Delta f$$

dB decibel

$$dB = 10 \times \log (P_1 / P_2)$$

n rendement

$$n = \frac{P_{out}}{P_{in}} \times 100\%$$



Totalen



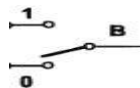
Lamp



Schakelaar



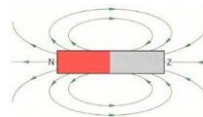
Verbreek contact



Wissel contact



Magneet



Magnetisch veld



Delta = verschil

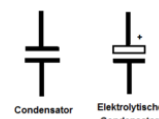


Modulatie-index

Versterking

n

rendament



Condensator



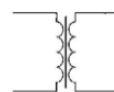
Spoel



Wortel



Trafo



TEKENS + symbolen

ADC Analooq Digitaal Omzetter

DAC Digitaal Analooq Converter

REGEL	KLEUR
zij	zwart
brenqt	bruin
rozen	rood
op	oranje
gerrits	geel
graf	groen
bij	blauw
vies	paars
grauw	grijs
weer	

GOUD
ZILVER

R = de weerstand in Ω .

X_L = de weerstand in Ω .

X_C = de weerstand in Ω .

Z = de weerstand in Ω .

$$R = \frac{\rho \cdot l}{A}$$

$$A = \frac{1}{4} \pi d^2$$

$$C = \frac{0.088 \cdot \text{isolator} \cdot A}{d}$$

$$t = 5RC$$

$$X_C = \frac{1}{2 \pi \cdot f \cdot C}$$



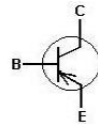
Diode



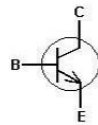
Zenerdiode



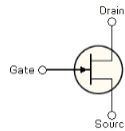
Varicap



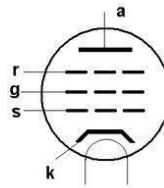
PNP transistor



NPN transistor



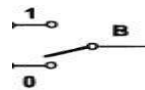
FET



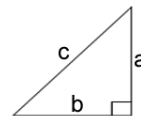
Penthode



Verbreek kontakt



Wissel kontakt



$$a^2 + b^2 = c^2$$

Pythagoras

GBS

GES

GCS

TEKENS + symbolen

le=lc

$$S = \frac{\Delta m A}{\Delta U}$$

Klasse A

Klasse B

Klasse AB

Klasse C

Naam	Getal	Getal	Calc.
Tera	1.000 000 000 000		Exp12
Giga	1 000 000 000		Exp9
Mega	1.000 000		Exp6
Kilo	1.000		Exp3
	1		
mili		0.001	Exp-3
μ micro		0.000 001	Exp-6
nano		0.000 000 001	Exp-9
pico		0.000 000 000 001	Exp-12