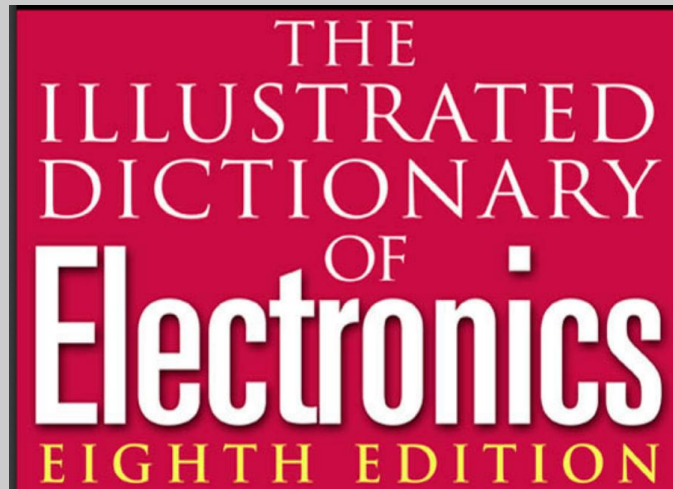


Name of the Tool

The Illustrated Dictionary of Electronics

Home Page



Logo



URL

<http://mf1.dpu.edu.tr/~altuncu/elektronik/Dictionary%20of%20Electronics.pdf>

Subject

Electronics – Dictionaries

Accessibility

On subscription basis.

Language

English

Publisher

McGraw-Hill

Brief History

It was published in 2001 by The McGraw-Hill Companies, Inc.

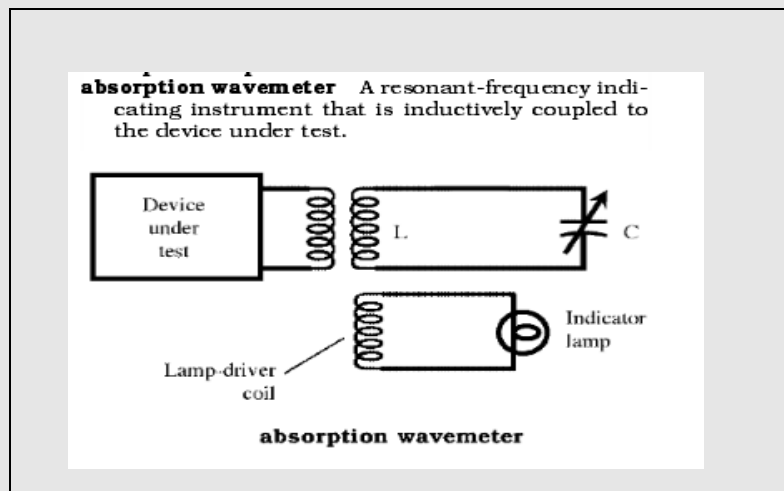
Scope and Coverage

This Illustrated Dictionary of Electronics (8th Edition) has been revised, clarified, and up-dated and reflecting technological advances of recent years. New definitions have been added in the fields of wireless technology, robotics, and artificial intelligence. Expressions of special significance are printed in italics. Electronics abbreviations are included in the text; the full terms are stated as definitions. Superfluous mathematics, equations are sometimes necessary to completely and effectively define a term. Mathematics beyond the high school level has not been used. Appendix A contains the standard symbols used in electrical and electronic diagrams. These symbols are used in illustrations throughout this dictionary. Appendix B contains the following data tables:

- ❖ Conversion between electrical systems
- ❖ Greek alphabet
- ❖ Mathematical functions and operations
- ❖ Prefix multipliers
- ❖ Resistor color code

Kind of Information

Terms are available with definitions and explanation in this dictionary. Many definitions contain cross references (indicated in ALL CAPITALS); these provide recommended additional information or allow comparison with related terms. Some examples are given below for clear understanding.



“ac/dc”

Abbreviation of ALTERNATING CURRENT/DIRECT CURRENT.

Pertains to equipment that will operate from either ac utility power or a dc power source. A notebook computer is a good example.

“ac voltmeter”








See AC METER.

“dielectric capacity”

See DIELECTRIC CONSTANT.

Special Features

- Under the appendix-A list of systematic symbols present here. e.g.:

Ammeter	
Amplifier general	
Amplifier, inverting	
Amplifier, operational	
AND gate	
Antenna, balanced	
Antenna, general	

- Under appendix-B list of conversion between electrical systems present here. e.g.:

Property	mks	egs electromagnetic	egs electrostatic
Capacitance	1 farad	10^{-9} abfarad	9×10^{11} statfarad
	10^9 F	1 abF	9×10^{20} statF
	$10^{-11}/9$ F	$10^{-20}/9$ abF	1 statF
Charge	1 coulomb	0.1 abcoulomb	3×10^9 statC
	10 C	1 abC	3×10^{10} statC
	$10^{-9}/3$ C	$10^{-10}/3$ aC	1 statC

- List of Greek alphabet present here. e.g.:

Capital	Lowercase	Name
A	α	alpha
B	β	beta
Γ	γ	gamma
Δ	δ or ∂	delta
E	ϵ	epsilon
Z	ζ	zeta
H	η	eta

- Mathematical functions list available here. e.g.:

Signs and symbols			
.	radix (base) point	\neq	not equal to
•	multiplication symbol; logic AND function	\sim	similar to
∞	infinity	$<$	less than
+	plus; positive; logic OR function	\nless	not less than
-	minus; negative	\ll	much less than

- List of prefix includes with this dictionary. e.g.:

Prefix	Quantity	Symbol
atto-	10^{-18}	a
femto-	10^{-15}	f
pico-	10^{-12}	p
nano-	10^{-9}	n
micro-	10^{-6}	μ
milli-	10^{-3}	m

Arrangement Pattern

In this dictionary terms are arranged in alphabetic order. For example (through print screen) under the alphabet 'A' the terms are arranged alphabetically.

abnormal reflections Sharp, intense reflections at frequencies higher than the critical frequency of the ionosphere's ionized layer.

abnormal termination The shutdown of a running computer program or other process. Caused by the detection of an error by the associated hardware that indicates that some ongoing series of actions cannot be executed correctly.

abnormal triggering The false triggering or switching of a circuit or device, such as a flip-flop, by some undesirable source instead of the true trigger signal. Electrical noise pulses often cause abnormal triggering.

abohm The unit of resistance and of resistivity in the cgs electromagnetic system. One abohm equals 10^{-9} ohms and is the resistance across which a steady current of 1 abampere produces a potential difference of 1 abvolt.

abort To deliberately terminate an operation, experiment, process, or project before it has run its normal course.

AB power pack **1.** A portable dry-cell or wet-cell array containing both A and B batteries in one package. **2.** An ac-operated unit in one package for supplying A and B voltages to equipment normally operated from batteries.

abrasion machine An instrument for determining the abrasive resistance of a wire or cable.

Remarks

This freely available dictionary on electronics related terms is a great help for the students, researchers, teachers and other interested people of all round the globe.

Comparable Tools

- Glossary / Dictionary of Electronics Terms (<http://www.hobbyprojects.com/dictionary/electronics-terms.html>)
- Illustrated mathematics dictionary (<https://www.mathsisfun.com/definitions/>)

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