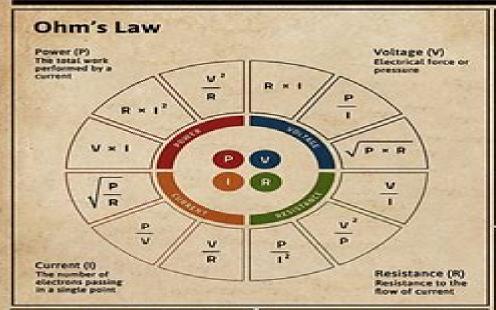
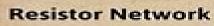
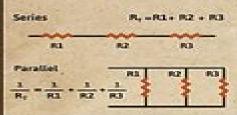
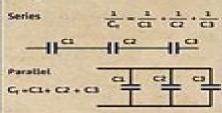
BASIC ELECTRONICS THEORY







Capacitor Network



Basic Units

Quantity		Unit
Capacitance		Forad
Charge	€ .	Coulomb
Current	A	Ampere
Energy	100	Joule
Force	. N	Hewton
Frequency	Ha	Herta
Inductance	+4	Henry
Magnetic Flux	MAS	Weber
Potential	100	Volt
Power	W	Wats
Resistance	0	Ohm

Kirchhoff's Laws

Closed Loop Rule

The directed sum of the electrical potential differences (voltage) around any closed circult

WAR - VIC -VCD - VCA - D



Junction Rule

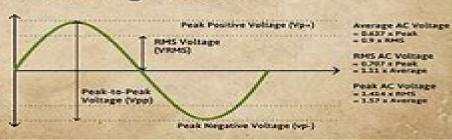
The sum of currents entering the junction are thus equal to the sum of currents leaving.



Unit Prefixes



Alternating Current



Electronic Fundamentals Study Guide

Richard Bailey

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included on all Master Electricians exams such as conductor sizing and protection motors transformers voltage drop over current protection and residential and commercial load calculations. The text contains the most widely used electrical calculations and formulas the reader needs to pass the Master electrical competency exam About the AuthorRay Holder has worked in the electrical industry for more than 40 years as an apprentice journeyman master field engineer estimator business manager contractor inspector and instructor. He is a graduate of Texas State University and holds a Bachelor of Science Degree in Occupational Education A certified instructor of electrical trades he has been awarded a lifetime teaching certificate from the Texas Education Agency in the field of Vocational Education Mr Holder has taught thousands of students at Austin Community College Austin Texas Odessa College at Odessa Texas Technical Vocational Institute of Albuquerque New Mexico Howard College at San Angelo Texas and in the public school systems in Fort Worth and San Antonio Texas He is currently Director of Education for Electrical Seminars Inc of San Marcos Texas Mr Holder is an active member of the National Fire Protection Association International Association of Electrical Inspectors and the International Brotherhood of Electrical Workers Resources in Education ,1987-04 Industrial Electronics N3 Johann Kraft,2000 Trade and Industrial Education; Instructional Materials Ohio State University. Center for Vocational and Technical Education,1972

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