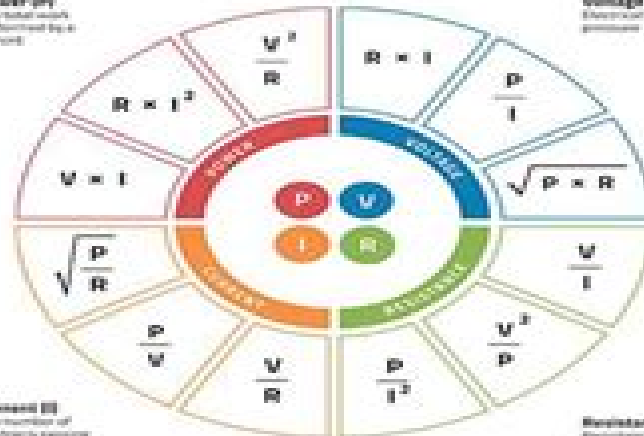


# Basic Electronics Theory

## Ohm's Law

**Power (P)**  
The total work performed by a circuit



## Basic Units

Quantity	Unit
Capacitance	F
Charge	C
Current	A
Energy	J
Force	N
Frequency	Hz
Inductance	H
Magnetic Flux	Wb
Potential	V
Power	W
Resistance	$\Omega$

## Kirchhoff's Laws

### Closed Loop Rule

The directed sum of the electrical potential differences (voltages) around any closed circuit is zero.

$$\sum \mathcal{E} = 0$$

$$V_{AB} + V_{BC} + V_{CA} = 0$$

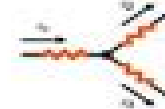


### Junction Rule

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

$$\sum I_{in} = \sum I_{out}$$

$$I_1 = I_2 + I_3$$



## Resistor Network

### Series

$$R_s = R_1 + R_2 + R_3$$



### Parallel

$$\frac{1}{R_p} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$



## Capacitor Network

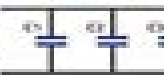
### Series

$$\frac{1}{C_s} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}$$



### Parallel

$$C_p = C_1 + C_2 + C_3$$

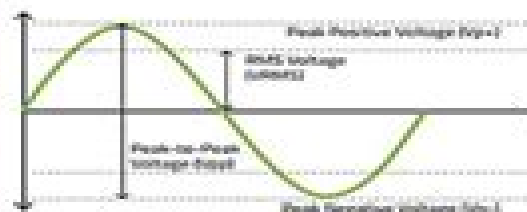


## Unit Prefixes

tera	T	$\times 10^{12}$	milli	m	$\times 10^{-3}$
giga	G	$\times 10^9$	micro	$\mu$	$\times 10^{-6}$
mega	M	$\times 10^6$	nano	n	$\times 10^{-9}$
kilo	k	$\times 10^3$	pico	p	$\times 10^{-12}$
hecto	h	$\times 10^2$			
deka	da	$\times 10^1$			
base					
deci	d	$\times 10^{-1}$			
centi	c	$\times 10^{-2}$			

Example:  
 $25 \mu A = 25 \times 10^{-6} A = 0.000025 A$   
 $1.5 kV = 1.5 \times 10^3 V = 1500 V$

## Alternating Current



$$\text{Average AC Voltage} = 0.637 \times \text{Peak} = 0.637 \times V_p$$

$$\text{RMS AC Voltage} = 0.707 \times \text{Peak} = 0.707 \times V_p$$

$$\text{Peak AC Voltage} = 1.414 \times \text{Average} = 1.414 \times V_{avg}$$

# Electronic Theory Chemical Reactio 4ed

**Michael Seilmaier**



## **Electronic Theory Chemical Reactio 4ed:**

Introduction to Modern Biochemistry 4e P Karlson, 2012-12-02 Introduction to Modern Biochemistry Fourth Edition provides an understanding of the chemical background of biological phenomena This book discusses the concepts of generation and utilization of free energy Organized into 23 chapters this edition starts with an overview of the important role of amides in biochemistry This text then explores the chemical structure of proteins and describes the methods of determining the amino acids sequence of proteins Other chapters consider the role of genes in protein and enzyme synthesis This book discusses as well the significance of the submicroscopic structure of the cell in biochemical reactions The reader is also introduced to the chemistry of the carbohydrates The final chapter deals with biochemical functions of various organs including the digestive tract liver kidney nervous system muscles and connective tissues This book is a valuable resource for biologists biochemists scientists researchers and readers who are interested in the field of biochemistry *Inorganic Reactions and Methods, Electron-Transfer and Electrochemical Reactions; Photochemical and Other Energized Reactions* J. J. Zuckerman, A. P. Hagen, 2009-09-17 Inorganic Reactions and Methods systemizes the discipline of modern inorganic chemistry according to a plan constructed by a council of editorial advisors and consultants that include three Nobel laureates E O Fischer H Taube and G Wilkinson Rather than producing a collection of unrelated review articles this series creates a framework that reflects the creative potential of this scientific discipline In a clear concise and highly organized manner it provides an in depth treatment of bond formation reactions categorized by element type The series covers all areas of inorganic chemistry including chemistry of the elements coordination compounds donor acceptor adducts organometallic polymer and solid state material and compounds relevant to bioinorganic chemistry A unique index system provides users with several fast options for accessing information on forming any bond type compound or reaction Coverage of both classical chemistry and the frontiers of today's research make this series a valuable reference for years to come *Quantum Theory of Chemical Reactions* R. Daudel, A. Pullman, L. Salem, A. Veillard, 2012-12-06 **Inorganic Electrochemistry** Piero Zanello, Carlo Nervi, Fabrizia Fabrizi de Biani, 2019-05-16 In order to understand the basic aspects of an electrochemical investigation on inorganic molecules in its widest meaning of any molecule which contains at least one metal centre it must be taken into account that in these molecules the metal ligand bonds are of the prevalingly covalent type Since electrochemical techniques allow you to add or remove electrons in a controlled manner it is conceivable that the addition or removal of electrons inside these molecules can lead to the formation of new bonds or to the breakage of existing bonds The main aim of this book is to study the effects of such electron addition and removal processes on the molecular frames The second edition of this classic book has been fully revised and updated and is a straightforward logical introduction to electrochemical investigations for inorganic chemists All chapters have been rewritten with new material including the addition of reactivity with nitric oxide to the chapter on the reactivity of metal complexes with small molecules thiolate

protected gold nanoclusters has been added to the chapter on metal sulfur and metal carbonyl clusters a new chapter on the digital simulation of electrochemical responses a new chapter on the theoretical calculations to explain the nature of the electrochemical activity of metal complexes new chapters on spectroelectrochemistry and electrochemiluminescence The book covers every aspect of inorganic electrochemistry the introduction is followed by chapters on the basic aspects of electrochemistry followed by practical and applicative aspects and ends with full appendices It is probably the only publication with a simple approach to electrochemical aspects of the topics in inorganic chemistry Bridging the gap between undergraduate and research level electrochemistry books this publication will be a welcome addition to the literature of inorganic chemists It will also be particularly useful to final year students in chemistry and as background reading for graduates and researchers without adequate electrochemical knowledge to become active in the discipline or who want to collaborate with electrochemists The Porphyrin Handbook, Volume 8 Karl Kadish, Kevin M. Smith, Roger Guilard, 2000

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a     *21st Century Nanoscience* Klaus D. Sattler, 2022-01-18 This 21st Century Nanoscience Handbook will be the most comprehensive up to date large reference work for the field of nanoscience Handbook of Nanophysics by the same editor published in the fall of 2010 was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasises presentation and real results and applications This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology It will be an indispensable resource in academic government and industry libraries worldwide The fields impacted by nanoscience extend from materials science and engineering to biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology aerospace engineering mechanical engineering food science and beyond     **21st Century Nanoscience - A Handbook** Klaus D. Sattler, 2020-04-02 This up to date reference is the most comprehensive summary of the field of nanoscience and its applications It begins with fundamental properties at the nanoscale and then goes well beyond into the practical aspects of the design synthesis and use of nanomaterials in various industries It emphasizes the vast strides made in the field over the past decade the chapters focus on new promising directions as well as emerging theoretical and experimental methods The contents incorporate experimental data and graphs where appropriate as well as supporting tables and figures with a tutorial approach

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