

Chapter 1

Anatomy

Learning objectives

To learn the anatomy of the eye, orbit and the third, fourth and sixth cranial nerves, to permit an understanding of medical conditions affecting these structures.

Introduction

A knowledge of ocular anatomy and function is important to the understanding of eye diseases. A brief outline is given below.

Gross anatomy

The eye (Fig. 1.1) comprises:

- A tough outer coat which is transparent anteriorly (the *cornea*) and opaque posteriorly (the *sclera*). The junction between the two is called the *limbus*. The extra-ocular muscles attach to the outer sclera while the optic nerve leaves the globe posteriorly.
- A rich vascular coat (the *uvea*) forms the *choroid* posteriorly, which is lined by and firmly attached to the retina. The choroid nourishes the outer two-thirds of the retina. Anteriorly, the uvea forms the ciliary body and the iris.
- The *ciliary body* contains the smooth *ciliary muscle*, whose contraction allows lens shape to alter and the focus of the eye to be changed. The ciliary epithelium secretes *aqueous humour* and maintains the ocular pressure. The ciliary body provides attachment for the *iris*, which forms the pupillary diaphragm.

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Oxidation in Organic Chemistry 5-C Walter Trahanovsky, 2012-12-02 Organic Chemistry A Series of Monographs Volume 5 C Oxidation in Organic Chemistry covers the preparative use and the mechanistic aspects of the various oxidation reactions This book contains five chapters that particularly consider oxidations that involve organoselenium intermediates Chapter I describes the developments of selenium in organic chemistry particularly the organoselenium reagents for performing selective oxidative transformations under unusually mild conditions Chapter II deals with the problems encountered in oxygenation reactions carried out by several microorganisms with an emphasis on a variety of fermentation techniques Chapter III examines the oxidation of various organic peroxy acids and other peroxides while Chapter IV discusses the oxidation with nitric acid or nitrogen oxides Chapter V focuses on the properties of various oxidants and their application to hypohalite oxidation This text will be of value to organic chemists researchers teachers and students who are interested in oxidation of organic compounds Principles of Vibration and Sound Thomas D. Rossing, Neville H. Fletcher, 2013-03-14 The first edition of this book presented the principles of vibration and sound with only a little discussion of applications of these principles During the past eight years our own experience as well as that of other teachers who used it as a textbook has indicated that students would benefit from more discussion of applications In this edition we have revised some of the material in the first nine chapters but more importantly we have added four new chapters dealing with applications including microphones loudspeakers and other transducers acoustics of concert halls and studios sound and noise outdoors and underwater sound Of course we could have selected many additional applications of vibration and sound but that would have led to a book with too much material for the average acoustics course in physics and engineering departments We think there is now ample material in the book so that instructors may select the applications of particular interest and omit the others without loss of continuity We have continued to stress concepts over detailed theory as seems most appropriate for an introductory course We appreciate the comments we have received from users students and teachers alike and we continue to welcome feedback September 2003 Thomas D Rossing Neville H Fletcher Preface to the First Edition Some years ago we set out to write a detailed book about the basic physics of musical instruments Electrical Properties of Polymers Donald A. Seanor, 2013-10-22 Electrical Properties of Polymers covers topics on the electrical properties of polymers The book discusses the electrical conduction in polymers the structure and charge generation in low dimensions and the photophysical processes energy transfer and photoconduction in polymers The text also describes the photovoltaic phenomena in organic solids thermally stimulated discharge current analysis of polymers and the polymeric electrets The contact electrification of polymers and its elimination and the dielectric breakdown phenomena in polymers are also considered Materials scientists and chemists will find the book invaluable **The General Statutes of Kansas: Sections 1-3220; chapters 1-79; Admission to Poor. The constitution of Kansas** Kansas, Charles Frederick William Dassler, 1876 **Molecular**

Spectroscopy and Quantum Dynamics Roberto Marquardt, Martin Quack, 2020-09-18 Molecular Spectroscopy and Quantum Dynamics an exciting new work edited by Professors Martin Quack and Roberto Marquardt contains comprehensive information on the current state of the art experimental and theoretical methods and techniques used to unravel ultra fast phenomena in atoms molecules and condensed matter along with future perspectives on the field Contains new insights into the quantum dynamics and spectroscopy of electronic and nuclear motion Presents the most recent developments in the detection and interpretation of ultra fast phenomena Includes a discussion of the importance of these phenomena for the understanding of chemical reaction dynamics and kinetics in relation to molecular spectra and structure *The Annual American Catalogue* ,1887

Insects Simon R. Leather, 2022 This book explores the extraordinarily diverse and beautiful world of insects from tiny wasps to giant beetles It analyses insect evolution and describes their behaviour their environments and the interactions they have with other animals It also discusses their vital role in all land ecosystems and their importance for our own survival

General Systems Theory: Mathematical Foundations ,1975-03-21 In this book we study theoretical and practical aspects of computing methods for mathematical modelling of nonlinear systems A number of computing techniques are considered such as methods of operator approximation with any given accuracy operator interpolation techniques including a non Lagrange interpolation methods of system representation subject to constraints associated with concepts of causality memory and stationarity methods of system representation with an accuracy that is the best within a given class of models methods of covariance matrix estimation methods for low rank matrix approximations hybrid methods based on a combination of iterative procedures and best operator approximation and methods for information compression and filtering under condition that a filter model should satisfy restrictions associated with causality and different types of memory As a result the book represents a blend of new methods in general computational analysis and specific but also generic techniques for study of systems theory and its particular branches such as optimal filtering and information compression Best operator approximation Non Lagrange interpolation Generic Karhunen Loeve transform Generalised low rank matrix approximation Optimal data compression Optimal nonlinear filtering

Chemical Physics and Quantum Chemistry ,2020-09-18 Advances in Quantum Chemistry presents surveys of current topics in this rapidly developing field one that has emerged at the cross section of the historically established areas of mathematics physics chemistry and biology It features detailed reviews written by leading international researchers In this volume the readers are presented with an exciting combination of themes Presents surveys of current topics in this rapidly developing field that has emerged at the cross section of the historically established areas of mathematics physics chemistry and biology Features detailed reviews written by leading international researchers Topics include New advances in Quantum Chemical Physics Original theory and a contemporary overview of the field of Theoretical Chemical Physics State of the Art calculations in Theoretical Chemistry

Machine Shop Science Joseph Jordan Eaton, Albert V. Free, 1926 The Creamery and Milk Plant

Monthly ,1929 *Connecticut Schools* Connecticut. State Board of Education,1924 Connecticut Schools ,1923
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