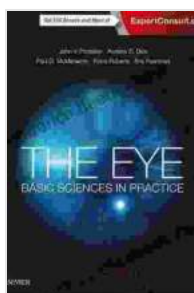


The Eye Book: Basic Sciences in Practice

The Eye Book: Basic Sciences in Practice is a comprehensive guide to the basic sciences of the eye, covering anatomy, physiology, and pathology. Written by a team of leading experts in ophthalmology, this book provides a detailed overview of the structure and function of the eye, as well as the diseases that can affect it.



The Eye E-Book: Basic Sciences in Practice

by John V. Forrester

★★★★☆ 4.6 out of 5

Language : English

File size : 50881 KB

Text-to-Speech : Enabled

Screen Reader : Supported

Enhanced typesetting : Enabled

Print length : 1452 pages



The Eye Book is an essential resource for ophthalmologists, optometrists, and other eye care professionals, as well as students and researchers in the field.

Anatomy of the Eye

The anatomy of the eye is complex and intricate. The eye is divided into two main chambers: the anterior chamber and the posterior chamber. The anterior chamber is filled with aqueous humor, and the posterior chamber is filled with vitreous humor.

The anterior chamber is bounded by the cornea and the iris. The cornea is a clear, dome-shaped structure that covers the front of the eye. The iris is a colored, ring-shaped structure that surrounds the pupil. The pupil is a black hole in the center of the iris that allows light to enter the eye.

The posterior chamber is bounded by the iris and the lens. The lens is a clear, flexible structure that helps to focus light on the retina. The retina is a thin, light-sensitive membrane that lines the back of the eye.

Physiology of the Eye

The physiology of the eye is complex and intricate. The eye is responsible for converting light into electrical signals that can be interpreted by the brain.

The first step in vision is the refraction of light. Light enters the eye through the cornea and is then refracted by the lens. The lens focuses the light on the retina.

The retina contains specialized cells called photoreceptors that convert light into electrical signals. These electrical signals are then sent to the brain through the optic nerve.

The brain interprets the electrical signals from the retina and creates an image of the world.

Pathology of the Eye

The pathology of the eye is complex and intricate. There are many different diseases that can affect the eye, including:

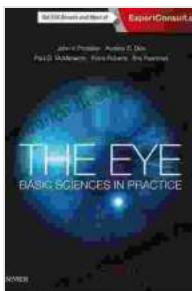
* Cataracts * Glaucoma * Macular degeneration * Retinal detachment *
Ocular tumors

These diseases can cause a variety of symptoms, including:

* Blurred vision * Loss of vision * Eye pain * Redness * Swelling

It is important to see an eye doctor if you are experiencing any of these symptoms.

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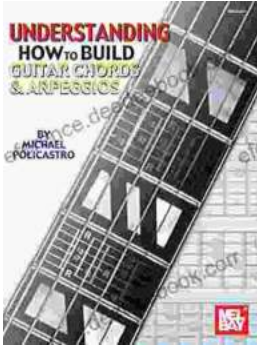
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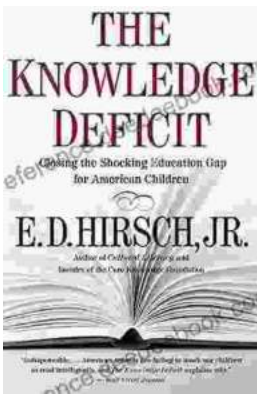
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