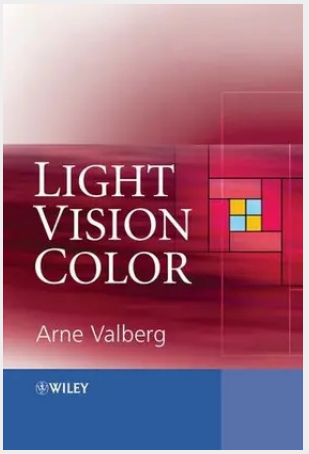
Valberg

Light Vision Color

Light Vision Color takes a well-balanced, interdisciplinary approach to our most important sensory system. The book successfully combines basics in vision sciences with recent developments from different areas such as neuroscience, biophysics, sensory psychology and philosophy. Originally published in 1998 this edition has been extensively revised and updated to include new chapters on clinical problems and eye diseases, low vision rehabilitation and the basic molecular biology and genetics of colour vision. * Takes a broad interdisciplinary approach combining basics in vision sciences with the most recent developments in the area * Includes an extensive list of technical terms and explanations to encourage student understanding * Successfully brings together the most important areas of the subject in to one volume

Light Vision Color takes a balanced, interdisciplinary approach to our most important sensory system. The book successfully combines the fundamentals behind the visual sciences with recent developments from different areas such as neuroscience, biophysics, psychophysics and sensory psychology. With visual illusions put into context, the book begins by describing the optics of the eye and the physiology of the retina. Later chapters go on to explore photometry, contrast sensitivity and the relationship between light, color and colorimetry. The sensitivity and response of nerve cells is also introduced with discussions of perceptual experience and on the relevant brain processes. This text will be an invaluable resource for those students taking degree courses in a broad range of subjects. These include ophthalmology, neurophysiology, optics, biophysics, medicine and cognitive science. The book will also provide a useful overview for professionals and researchers in the field. * A broad interdisciplinary approach combining the fundamentals with the most recent developments in vision science. * Includes and extensive list of technical terms and explanations to encourage student understanding. * Draws together the science behind this diverse and evolving subject including the basic molecular biology and genetics of color vision.



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