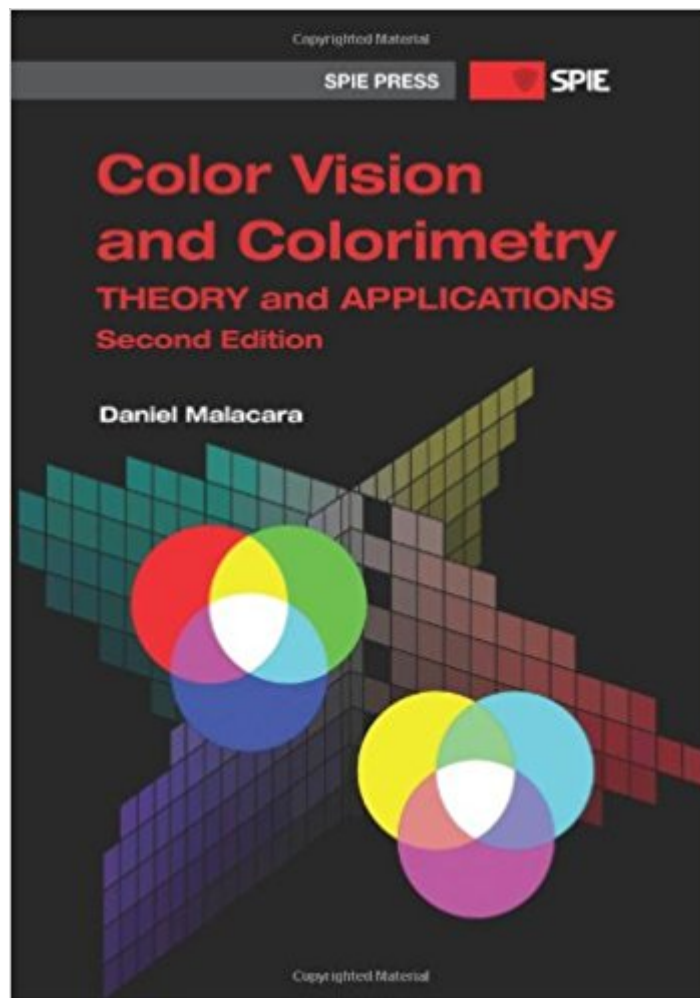


The book was found

Color Vision And Colorimetry: Theory And Applications (SPIE Press Monograph Vol. PM204)



Synopsis

This second edition has been rewritten, updated, and enlarged, describing the basic principles of color vision and colorimetry. The history of color is described, along with the main methods used to measure color and their associated color systems, and the human eye and its color detectors are explained with some detail. The book has been written with students in an introductory color course in mind, but those who have experience in the field will also benefit from the compendium of data within.

Book Information

Series: Spie Press Monograph

Paperback: 188 pages

Publisher: SPIE Press; 2 edition (August 5, 2011)

Language: English

ISBN-10: 0819483974

ISBN-13: 978-0819483973

Product Dimensions: 0.5 x 7 x 9.8 inches

Shipping Weight: 1 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #533,877 in Books (See Top 100 in Books) #59 in [Books > Textbooks >](#)

[Medicine & Health Sciences > Allied Health Services > Optometry](#) #83 in [Books > Medical](#)

[Books > Allied Health Professions > Optometry](#) #178 in [Books > Science & Math > Physics >](#)

[Optics](#)

Customer Reviews

Only intended for the mathematically inclined.

This is one of the rare books on color vision that leaves the human visual system to the end. In fact, the cone response functions are among the last topics discussed. Instead, this short work of about 150 pages takes a more or less chronological approach to colorimetry, starting with a few fundamentals on colorful light, progressing through trichromatic systems (like RGB, XYZ, and xyY) and uniform color systems (such as Munsell, CIELUV, and CIELAB) before ending at color mixing and measurement. It's quite a good book for those needing concise definitions and equations. Many diagrams and full-color diagrams complement tables for color matching functions and color transformation equations. In a few places the text is overly terse, and my only wish is that Malacara

would have provided a bit more context around some of the equations explaining where some "magical" values come from.

[Download to continue reading...](#)

Color Vision and Colorimetry: Theory and Applications (SPIE Press Monograph Vol. PM204)
Contrast Sensitivity of the Human Eye and Its Effects on Image Quality (SPIE Press Monograph Vol. PM72) A Guide to the Use and Calibration of Detector Array Equipment (SPIE Press Monograph Vol. PM142) Optics Made Clear: The Nature of Light And How We Use It (SPIE Press Monograph Vol. PM163) EUV Lithography (SPIE Press Monograph Vol. PM178SC) Principles of Lithography, Second Edition (SPIE Press Monograph Vol. PM146) Excimer Laser Lithography (SPIE Press Monograph Vol. PM03) The Art of Radiometry (SPIE Press Monograph Vol. PM184) Laser-Induced Interstitial Thermo-therapy (SPIE Press Monograph Vol. PM25) (Institute Series, Is13) Air and Spaceborne Radar Systems: An Introduction (SPIE Press Monograph) Laser Safety in the Lab (SPIE Press Monograph PM212) Eye Exercises to Improve Vision: Recover Your Vision Naturally with Simple Exercises (Vision Training) Cellular Physiology and Neurophysiology E-Book: Mosby Physiology Monograph Series (Mosby's Physiology Monograph) Endocrine and Reproductive Physiology: Mosby Physiology Monograph Series (with Student Consult Online Access), 4e (Mosby's Physiology Monograph) Cardiovascular Physiology: Mosby Physiology Monograph Series (with Student Consult Online Access), 10e (Mosby's Physiology Monograph) Renal Physiology: Mosby Physiology Monograph Series (with Student Consult Online Access), 5e (Mosby's Physiology Monograph) Gastrointestinal Physiology: Mosby Physiology Monograph Series (With STUDENT CONSULT Online Access), 8e (Mosby's Physiology Monograph) Let's Grill! Best BBQ Recipes Box Set: Best BBQ Recipes from Texas (vol.1), Carolinas (Vol. 2), Missouri (Vol. 3), Tennessee (Vol. 4), Alabama (Vol. 5), Hawaii (Vol. 6) Color Theory: An essential guide to color-from basic principles to practical applications (Artist's Library) Field Guide to Visual and Ophthalmic Optics (SPIE Vol. FG04)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)