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3.10 Psychophysical Scaling as a Basis of Color SpaceChapter 4. Color Attributes and Perceptual Attribute Scaling; 4.1 Theories of Vision; 4.2 Historical Development of Views on Attributes; 4.3 Whiteness and Blackness; 4.4 Evans's Five Color Attributes; 4.5 Common Color Attribute Definitions; 4.6 Confirmation of Three Attributes; 4.7 Contrast versus Similitude; 4.8 Neural Correlates of Color Attributes; 4.9 Psychological (Perceptual) Scaling of Color Attributes; 4.10 Perception of Color Differences; Chapter 5. Psychophysical Scaling of Color Attributes: Stimulus and Perception
5.1 Requirements for a Uniform Psychophysical Color Space5.2 Postulated Relationship between Psychological and Physical Magnitudes; 5.3 Photometry and Brightness/Lightness; 5.4 The Colorimetric System; 5.5 Cone Response Space; 5.6 Opponent Color Space; 5.7 How Are the L, M, S and X, Y, Z Color Spaces Related?; 5.8 Expressing Psychological Scales in Psychophysical Spaces; 5.9 Color Matching and Appearance Scaling; 5.10 Placement of the Red and Green Unique Hues in the Opponent Color Diagram; 5.11 Curvature of Lines of Constant Hue Blue Colors
5.12 Munsell Colors in the L, M, S and X, Y, Z Spaces and the a, b Diagram

Sommario/riassunto

It has been postulated that humans can differentiate between millions of gradations in color. Not surprisingly, no completely adequate, detailed catalog of colors has yet been devised, however the quest to understand, record, and depict color is as old as the quest to understand the fundamentals of the physical world and the nature of human consciousness. Rolf Kuehni's Color Space and Its Divisions: Color Order from Antiquity to the Present represents an ambitious and unprecedented history of man's inquiry into color order, focusing on the practical applications of the most contemporary develo