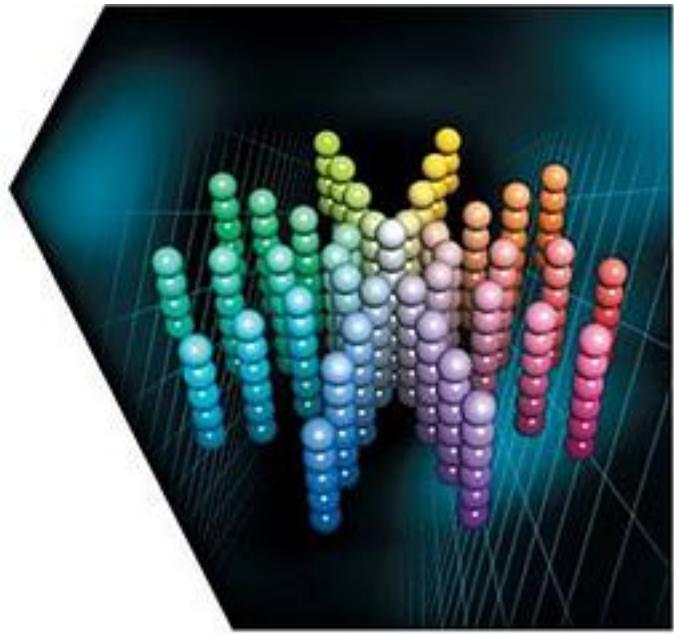


Color Appearance Models



Mark D. Fairchild

COLOR APPEARANCE MODELS

Second Edition

WILEY

WILEY-ISAT SERIES IN IMAGING SCIENCE AND TECHNOLOGY



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There is an ever-increasing demand for a standard way to transport colours among devices on the Internet, and for achieving colour fidelity across digital media. The rapid growth in colour imaging technology has led to the emergence of colour management systems. These systems require colour appearance models so that images produced in one medium and viewed in a particular environment, may be reproduced in a second medium and viewed under different conditions. The eagerly anticipated second edition of Colour Appearance Models brings the fundamental issues and current solutions in the area of colour appearance modelling together in a single place for those needing to solve practical problems or looking for background for ongoing research projects. This book provides the relevant information for an updated review of colour appearance and provide details of many of the most widely used models to date, for example, Nayatani et al., Hunt, and RLAB and the ATD and LLAB appearance models that are of increasing interest for some applications. It also includes the recently formulated CIECAM02 model that represents a significant improvement of CIECAM97S and is the best possible model based on current knowledge. Fairchild presents an updated overview of device-independent colour imaging and finally introduces the concept of image appearance modelling as a potential future direction for colour appearance modelling research. A website accompanies this text that lists developments, publications and calculations related to the material in this book.

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