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Billmeyer And Saltzmanns Principles Of Color Technology

Colorimetry, the science of quantitatively describing color, is essential for color reproduction technology. This is

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because it creates standards by which to measure color, using mathematical techniques and software to ensure fidelity across media, allow accurate color mixing, and to develop color optimization. This book is a comprehensive and thorough introduction to colorimetry, taking the

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reader from basic concepts through to a variety of industrial applications. Set out in clear, easy-to-follow terminology, Ohta and Robertson explain fundamental principles such as color specification, the CIE (International Commission on Illumination) system, and color vision and appearance

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models. They also cover the following topics: the optimization of color reproduction; uniform color spaces and color difference formulae, including the CIEDE 2000 formula; applications of metamerism, chromatic adaptation, color appearance and color rendering; mathematical formulae for calculating

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color mixing, maximising luminous efficacy, and designing illuminants with specific properties. Colorimetry: Fundamentals and Applications is an ideal reference for practising color engineers, color scientists and imaging professionals working on color systems. It is also a practical guide for senior

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undergraduate and graduate students who want to acquire knowledge in the field.

The Encyclopedia of Color Science and Technology provides an authoritative single source for understanding and applying the concepts of color to all fields of science and technology,

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including artistic and historical aspects of color. Many topics are discussed in this timely reference, including an introduction to the science of color, and entries on the physics, chemistry and perception of color. Color is described as it relates to optical phenomena of color and continues on through

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colorants and materials used to modulate color and also to human vision of color. The measurement of color is provided as is colorimetry, color spaces, color difference metrics, color appearance models, color order systems and cognitive color. Other topics discussed include industrial color, color

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imaging, capturing color, displaying color and printing color. Descriptions of color encodings, color management, processing color and applications relating to color synthesis for computer graphics are included in this work. The Encyclopedia also delves into color as it applies to other domains such as art and

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design – ie – color design, color harmony, color palettes, color and accessibility, researching color deficiency, and color and data visualization. There is also information on color in art conservation, color and architecture, color and educations, color and culture, and an overview of the

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history of color and comments on the future of color. This unique work will extend the influence of color to a much wider audience than has been possible to date.

Provides approaches to: what produces and affects color; the description of color in words and numbers;

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arrangement of color in ordered systems; measurement of color with instruments; calculation of color differences and setting of color tolerances; colorants (dyes and pigments); color mixing and matching (visually and by computer); and recent advances and problem areas. Includes

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equations, tabulated data, and references updated through mid 1980. "Color for the Sciences is the first book on colorimetry to offer an account that emphasizes conceptual and formal issues rather than applications. Jan Koenderink's introductory text treats colorimetry--literally, 'color

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measurement'--as a science, freeing the topic from the usual fixation on conventional praxis and how to get the 'right' result. Readers of Color for the Sciences will learn to rethink concepts from the roots in order to reach a broader, conceptual understanding. After a brief account of the history of

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the discipline (beginning with Isaac Newton) and a chapter titled 'Colorimetry for Dummies,' the heart of the book covers the main topics in colorimetry, including the space of beams, achromatic beams, edge colors, optimum colors, color atlases, and spectra. Other chapters cover more

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specialized topics, including implementations, metrics pioneered by Schrödinger and Helmholtz, and extended color space. Color for the Sciences can be used as a reference for professionals or in a formal introductory course on colorimetry. It will be especially useful both for those

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working with color in a scientific or engineering context who find the standard texts lacking and for professionals and students in image engineering, computer graphics, and computer science. Each chapter ends with exercises, many of which are open-ended, suggesting ways to explore the

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topic further, and can be developed into research projects. The text and notes contain numerous suggestions for demonstration experiments and individual explorations. The book is self-contained, with formal methods explained in appendixes when necessary"--Provider website.

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Color

**Principles of Colour and Appearance
Measurement**

Color Management

**Principles of Applied Biomedical
Instrumentation**

A Philosophy of Computer Art

With the move of cinema away

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from film, the adoption of electronic-based production throughout all media is now complete. In order to exploit its advantages, the accurate definition, measurement and reproduction of colour has

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become more important than ever to achieve the best fidelity of colour reproduction. This book is concerned with providing readers with all they need to know about colour: how it is perceived and

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described, how it is measured and generated and how it is reproduced in colour systems. It serves as both a tutorial and a reference book, defining what we mean by colour and providing an explanation of

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***the proper derivation of
chromaticity charts and
through to the means of
ensuring accurate colour
management. Key Features:
Addresses important theory
and common misconceptions***

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***in colour science and
reproduction, from the
perception and characteristics
of colour to the practicalities
of its rendering in the fields of
television, photography and
cinematography Offers a clear***

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***treatment of the CIE
chromaticity charts and their
related calculations,
supporting discussion on
system primaries, their colour
gamuts and the derivation of
their contingent red, green***

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and blue camera spectral sensitivities Reviews the next state-of-the-art developments in colour reproduction beyond current solutions, from Ultra-High Definition Television for the 2020s to laser projectors

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***with unprecedented colour
range for the digital cinema
Includes a companion website
hosting a workbook consisting
of invaluable macro-enabled
data worksheets; JPEG files
containing images referred to***

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in the book, including colour bars and grey scale charts to establish perceived contrast range under different environmental conditions; and, guides to both the workbook and JPEG files

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***Encyclopedia of Medical
Devices and Instrumentation
John G. Webster, Editor-in-
Chief This comprehensive
encyclopedia, the work of
more than 400 contributors,
includes 266 articles on***

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***devices and instrumentation
that are currently or likely to
be useful in medicine and
biomedical engineering. The
four volumes include 3,022
pages of text that
concentrates on how***

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***technology assists the
branches of medicine. The
articles emphasize the
contributions of engineering,
physics, and computers to
each of the general areas of
medicine, and are designed***

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***not for peers, but rather for
workers from related fields
who wish to take a first look at
what is important in the
subject. Highly recommended
for university biomedical
engineering and medical***

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reference collections, and for anyone with a science background or an interest in technology. Includes a 78-page index, cross-references, and high-quality diagrams, illustrations, and photographs.

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1988 (0 471-82936-6)

***4-Volume Set Introduction to
Radiological Physics and
Radiation Dosimetry Frank
Herbert Attix provides
complete and useful coverage
of radiological physics. Unlike***

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most treatments of the subject, it encompasses radiation dosimetry in general, rather than discussing only its applications in medical or health physics. The treatment flows logically from basics to

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more advanced topics.

***Coverage extends through
radiation interactions to cavity
theories and dosimetry of X-
rays, charged particles, and
neutrons. Several important
subjects that have never been***

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thoroughly analyzed in the literature are treated here in detail, such as charged-particle equilibrium, broad-beam attenuation and geometries, derivation of the Kramers X-ray spectrum, and

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***the reciprocity theorem, which
is also extended to the
nonisotropic homogeneous
case. 1986 (0 471-01146-0)
607 pp. Medical Physics John
R. Cameron and James G.
Skofronick This detailed text***

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describes medical physics in a simple, straightforward manner. It discusses the physical principles involved in the control and function of organs and organ systems such as the eyes, ears, lungs,

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***heart, and circulatory system.
There is also coverage of the
application of mechanics, heat,
light, sound, electricity, and
magnetism to medicine,
particularly of the various
instruments used for the***

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***diagnosis and treatment of
disease. 1978 (0 471-13131-8)
615 pp.***

***Venerated as god and
goddess, feared as demon and
pestilence, trusted as battle
omen, and used as a proving***

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***ground for optical theories,
the rainbow's image is woven
into the fabric of our past and
present. From antiquity to the
nineteenth century, the
rainbow has played a vital role
in both inspiring and testing***

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new ideas about the physical world. Although scientists today understand the rainbow's underlying optics fairly well, its subtle variability in nature has yet to be fully explained. Throughout history

the rainbow has been seen primarily as a symbol—of peace, covenant, or divine sanction—rather than as a natural phenomenon. Lee and Fraser discuss the role the rainbow has played in

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societies throughout the ages, contrasting its guises as a sign of optimism, bearer of Greek gods' messages of war and retribution, and a symbol of the Judeo-Christian bridge to the divine. The authors

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***traverse the bridges between
the rainbow's various roles as
they explore its scientific,
artistic, and folkloric visions.
This unique book, exploring
the rainbow from the
perspectives of atmospheric***

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optics, art history, color theory, and mythology, will inspire readers to gaze at the rainbow anew. For more information on The Rainbow Bridge, visit: & This Encyclopedia of

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Agrophysics will provide up-to-date information on the physical properties and processes affecting the quality of the environment and plant production. It will be a "first-up" volume which will nicely

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***complement the recently
published Encyclopedia of Soil
Science, (November 2007)
which was published in the
same series. In a single
authoritative volume a
collection of about 250***

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***informative articles and ca 400
glossary terms covering all
aspects of agrophysics will be
presented. The authors will be
renowned specialists in
various aspects in agrophysics
from a wide variety of***

countries. Agrophysics is important both for research and practical use not only in agriculture, but also in areas like environmental science, land reclamation, food processing etc. Agrophysics is

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a relatively new interdisciplinary field closely related to Agrochemistry, Agrobiology, Agroclimatology and Agroecology. Nowadays it has been fully accepted as an agricultural and environmental

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***discipline. As such this
Encyclopedia volume will be an
indispensable working tool for
scientists and practitioners
from different disciplines, like
agriculture, soil science,
geosciences, environmental***

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**science, geography, and
engineering.**

**Image Analysis, Sediments and
Paleoenvironments**

**Encyclopedic Dictionary of
Polymers**

The Rainbow Bridge

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***Principles, Technologies, and
Impacts***

***Encyclopedia of Color Science
and Technology***

*This book offers detailed coverage of
color, colorants, the coloring of materials,
and reproducing the color of materials*

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through imaging. It combines the clarity and ease of earlier editions with significant updates about the advancement in color theory and technology. Provides guidance for how to use color measurement instrumentation, make a visual assessment, set a visual tolerance, and select a formulation

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*Supplements material with numerical examples, graphs, and illustrations that clarify and explain complex subjects
Expands coverage of topics including spatial vision, solid-state lighting, cameras and spectrophotometers, and translucent materials*

An introduction to the science of light

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and color and its applications to photography, art, natural phenomena, and other related areas. Explains the origin of phenomena commonly encountered in nature and art, emphasizing the physical aspects but also touching on aspects of physiology and psychology that directly influence how

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visual images are perceived. Covers the effect of mixing color, the notion of color spaces, how atoms and molecules affect light, how light can be measured, the effect of using a lens, and many other topics. Requires little or no mathematical background. Includes questions and references for further reading.

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“A curator, a paintings conservator, a photographer, and a conservation scientist walk into a bar.” What happens next? In lively and accessible prose, color science expert Roy S. Berns helps the reader understand complex color-technology concepts and offers solutions to problems that occur when art is displayed,

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conserved, imaged, or reproduced. Berns writes for two types of audiences: museum professionals seeking explanations for common color-related issues and students in conservation, museum studies, and art history programs. The seven chapters in the book fall naturally into two sections: fundamentals, covering topics such as

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spectral measurements, metamerism, and color inconstancy; and applications, where artwork display, painting materials, and color reproduction are discussed. A unique feature of this book is the use of more than 200 images as its main medium of communication, employing color physics, color vision, and

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imaging science to produce visualizations throughout the pages. An annotated bibliography complements the main text with suggestions for further reading and more in-depth study of particular topics. Engaging, incisive, and absolutely critical for any scholar or student interested in color science, Color Science and the

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Visual Arts is sure to become a key reference for the entire field.

The essential resource for readers needing to understand visual perception and for those trying to produce, reproduce and measure color appearance in various applications such as imaging, entertainment, materials, design,

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architecture and lighting. This book builds upon the success of previous editions, and will continue to serve the needs of those professionals working in the field to solve practical problems or looking for background for on-going research projects. It would also act as a good course text for senior

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undergraduates and postgraduates studying color science. The 3rd Edition of Color Appearance Models contains numerous new and expanded sections providing an updated review of color appearance and includes many of the most widely used models to date, ensuring its continued success as the comprehensive

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resource on color appearance models. Key features: Presents the fundamental concepts and phenomena of color appearance (what objects look like in typical viewing situations) and practical techniques to measure, model and predict those appearances. Includes the clear explanation of fundamental concepts that

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makes the implementation of mathematical models very easy to understand. Explains many different types of models, and offers a clear context for the models, their use, and future directions in the field.

Algorithms and Interfaces

Understanding the CIE System

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Real World Color Management

Photography, Television, Cinematography

Rainbows in Art, Myth, and Science

Color and Mastering for Digital

Cinema explores the

implications for motion picture

post production processes and

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changes required to the supporting equipment and software. While a new concept to the motion picture community, the selection of the wide gamut, output-referred XYZ color space for digital

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cinema distribution is based on decades of color science and experience in other industries. The rationale for choosing XYZ and the other color encoding parameters is explained and the book also provides a full case

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*study of the development of
DLP Cinema® projectors by
Texas Instruments. Finally, this
book explores how the XYZ
color encoding concept can be
extended to support enhanced
display technologies in the*

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*future. This book contains: *
Brilliant 4-color illustrations
that compliment the color
science explanations * Never
before published industry
information from author Glenn
Kennel, a world leader in digital*

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*cinema color technology **

*Descriptions of key issues and
background on decisions that
were made in the
standardization process By*

*Glenn Kennel, Glenn Kennel is
VP/GM of Feature Film Services*

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at Laser Pacific Media Corporation, a leading provider of a full range of post production services for television and feature film. Recently, he worked for the DLP Cinema group of Texas

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*Instruments in a role that
included technology and
business development.*

*Previously, in a twenty year
career with Kodak, he led the
development of the Cineon
digital film scanners and laser*

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*recorders and the prototype
HDTV telecine that became the
Spirit Datacine. As a consultant,
he helped DCI draft the
technical specifications for
digital cinema. Kennel also
chairs the SMPTE DC28 Color*

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*ad hoc group and the DC28.20
Distribution working group. He
is a SMPTE Fellow and has
received the SMPTE Journal
Award. He is also a member of
the Academy of Motion Picture
Arts and Sciences.*

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Whether they are working in print, interactive, environmental, or web-based design, designers will learn how to apply color theory to their work in order to communicate and entertain. Graphic design

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professors John Drew and Sarah Meyer explain all of the technical issues that are relevant to communicating with color in 2-D and 3-D environments and in still and moving images. This invaluable

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guide arms designers with all the in-depth technical information that they need about color theory, color systems, mixing, removal, pigments, inks, papers, and printing. Graphic design

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students and educators will also appreciate Drew and Meyer's considerations of how human beings perceive and react to color in every aspect of their daily lives. Featuring over 200 dynamic samples of graphic

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design and color usage from around the world, this guide is an unrivaled resource and an excellent choice for course adoptions.

Fully updated-the classic comprehensive introduction to

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color technology The Third Edition of Billmeyer and Saltzman's Principles of Color Technology combines the clarity and ease of use of earlier editions with two decades of advancement in the theory and

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technology of color. Defining color as "a certain kind of light, its effect on the human eye, or (most important of all) the result of this effect in the mind of the viewer," the book offers detailed coverage of color,

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colorants, the coloring of materials, and reproducing the color of materials through imaging. While retaining important material on the color technology of paints, plastics, textiles, and other materials,

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the Third Edition features in-depth coverage of computer-generated color, digital image capture, desktop color printing, and color management-achieving color fidelity among scanners, digital cameras, and

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*other color imaging devices.
The new edition of Principles of
Color Technology offers
expanded coverage that
includes: * Measuring color
quality-a new chapter describes
the principles and applications*

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*of setting instrumental color
tolerances * Mathematics of
color technology-a new
appendix presents principles of
color technology using
mathematics * Color modeling-
additional material covers CRT*

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*displays and color printing
Supplemented with copious
numerical examples, graphs,
and illustrations that clarify and
explain complex material, as
well as side bars that present
technical details in a well-*

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*organized, accessible manner,
this excellent and exciting
introduction for newcomers to
the field is also a valuable
reference for experienced color
technologists, color specialists,
chemical and industrial*

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*engineers, computer scientists,
research scientists, and
mathematicians interested in
color.*

*Every graphics professional
worth his or her salt knows the
importance of color*

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management. No matter how much thought artist and client put into the color scheme for a given project, all of that work is for naught if you can't get your results to match your expectations. Enter Real World

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Color Management, Second Edition. In this thoroughly updated under-the-hood reference, authors Bruce Fraser, Chris Murphy, and Fred Bunting draw on their years of professional experience to show

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*you everything you need to
know about color management.
Whether your final destination
is print, Web, or film, Real
World Color Management,
Second Edition takes the
mystery out of color*

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management, covering everything from color theory and color models to understanding how devices interpret and display color. You'll find expert advice for building and fine-tuning color

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profiles for input and output devices (digital cameras and scanners, displays, printers, and more), selecting the right color management workflow, and managing color within and across major design

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*applications. Get Real World
Color Management, Second
Edition--and get ready to
dazzle!*

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Fundamentals and Applications*

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*A Guide for Conservators,
Curators, and the Curious*
*A Comprehensive Guide for
Graphic Designers*
*Computational Colour Science
using MATLAB*
Rapidly evolving computer

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and communications technologies have achieved data transmission rates and data storage capacities high enough for digital video. But video involves much more than just pushing bits!

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Achieving the best possible image quality, accurate color, and smooth motion requires understanding many aspects of image acquisition, coding, processing, and display that

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are outside the usual realm of computer graphics. At the same time, video system designers are facing new demands to interface with film and computer system that require techniques

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outside conventional video engineering. Charles Poynton's 1996 book A Technical Introduction to Digital Video became an industry favorite for its succinct, accurate, and

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accessible treatment of standard definition television (SDTV). In Digital Video and HDTV, Poynton augments that book with coverage of high definition television (HDTV) and compression

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systems. For more information on HDTV Retail markets, go to: <http://www.insightmedia.info/newsletters.php#hdtv> With the help of hundreds of high quality technical illustrations, this

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book presents the following topics: * Basic concepts of digitization, sampling, quantization, gamma, and filtering * Principles of color science as applied to image capture and display *

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Scanning and coding of SDTV
and HDTV * Video color
coding: luma, chroma (4:2:2
component video, 4fSC
composite video) * Analog
NTSC and PAL * Studio
systems and interfaces *

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Compression technology,
including M-JPEG and MPEG-2
* Broadcast standards and
consumer video equipment
Increasing use of digital
signals for transmitting data
in television, photography

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and printing means the reproduction of pictorial colour in the 21st century continues to drive innovation in its development. Hunt's classic text The Reproduction of Colour has

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been fully revised and updated for the sixth edition to provide a comprehensive introduction to colour imaging and colour reproduction. New illustrations, diagrams and

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photographs ensure that both students and practising engineers using colour images can gain a full understanding of the theory and practical applications behind the phenomena they

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encounter. Key features:
Describes the fundamental
principles of colour
reproduction for
photography, television,
printing and electronic
imaging. Provides detailed

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coverage of the physics of light and the property of colorants. Includes new chapters on digital printing and digital imaging, which discuss colour reproduction on HDTV and desktop

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publishing. Presents expanded coverage of the evaluation of colour appearance. The *Reproduction of Colour* is already used as a basis for lectures in universities and

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specialist institutions and continues to be an essential resource for scientists, engineers and developers needing to appreciate the technologies of colour perception. Reviews of the

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Fifth Edition: "The book is beautifully written and superbly presented. It is a credit to both author and publisher, and deserves to be on the shelves of anyone who has any concern with

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the reproduction of colour."

From The Journal of

Photographic Science, Vol.

43 1995 "Using his ability as

a teacher, Dr Hunt has made

potentially very difficult

topics quite readable...he

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brings the insight that leads the reader to a greater depth of understanding." From Color Research and Application, Vol. 23 1998 The Society for Imaging Science and Technology is an

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international society that aims to advance the science and practices of image assessment. A major objective of the Wiley-IS&T series will be to explain the latest scientific and

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technological developments in the field of imaging at a professional level. The broad scope of the series will focus on imaging in all its aspects, with particular emphasis on digital printing, electronic

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imaging, photofinishing,
image preservation, image
assessment, image
archiving, pre-press
technologies and hybrid
imaging systems.

Crystallization is an

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important separation and purification process used in industries ranging from bulk commodity chemicals to specialty chemicals and pharmaceuticals. In recent years, a number of

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environmental applications have also come to rely on crystallization in waste treatment and recycling processes. The authors provide an introduction to the field of newcomers and a

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reference to those involved in the various aspects of industrial crystallization. It is a complete volume covering all aspects of industrial crystallization, including material related to both

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fundamentals and applications. This new edition presents detailed material on crystallization of biomolecules, precipitation, impurity-crystal interactions, solubility, and design.

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Provides an ideal
introduction for industrial
crystallization newcomers
Serves as a worthwhile
reference to anyone involved
in the field Covers all aspects
of industrial crystallization in

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With a focus on the
transition from fossil fuels to
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Science provides a
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technologies, combining an accessible but rigorous explanation of the physical principles behind energy science with a cohesive examination of its environmental, economic,

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and social impacts.

Sources of Color Science

The Reproduction of Colour

Modelling and Predicting

Textile Behaviour

Modern Techniques in

Conservation and Analysis

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Principles of Colour
Technology

This volume presents the life work of the late Ruth Johnston-Feller, one of the nation's leading color scientists. It combines an overview of basic theoretical concepts with detailed,

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hands-on guidance for the professional conservator and conservation scientist. The author focuses on the application of color science to the solution of practical problems, providing a comprehensive discussion of the nondestructive spectrophotometric tools and

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techniques used to understand the color and appearance of materials during the technical examination of works of art. The book, which features numerous examples of reference reflectance spectra, can help prevent misinterpretation of color measurements and the erroneous

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conclusions that might result. Topics include spectrophotometry, colorimetry, colorant mixtures, analytical techniques, reflection, fluorescence, and the effects of extenders, fillers, and inerts.

The theme for this volume was chosen because no previous book has

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discussed the quality attributes of meat, poultry and fish and the methods that can be utilized for their measurement. The topics are not only timely but of great importance. Chapter I provides an introduction to the topic and presents a brief overview of the subject to be discussed. The

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next two chapters review information on the importance of color and some color problems in muscle foods, and explains the basis of color vision and perception of color before describing the methods that may be used for its measurement. The following chapter discusses water binding and juiciness

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and their importance, while Chapter 5 provides the first intensive modern review on measurement of juiciness that has been published (to the knowledge of the author and editors). Chapter 6 reviews the physiology and psychology of flavor and aroma, which serves as a background for further

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discussion on the flavor and aroma of foods. The next chapter discusses the chemistry of flavor and aroma in muscle foods, while measurement of flavor and aroma are covered in Chapter 8. Chapter 9 reviews the species-specific meat flavors and aromas. Chapter 10 reviews some

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flavor and aroma problems in muscle foods and their measurement.

Colorimetry: Understanding the CIE System summarizes and explains the standards of CIE colorimetry in one comprehensive source. Presents the material in a tutorial form, for easy understanding by students and

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engineers dealing with colorimetry. Provides an overview of the area of CIE colorimetry, including colorimetric principles, the historical background of colorimetric measurements, uncertainty analysis, open problems of colorimetry and their possible solutions, etc. Includes several

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appendices, which provide a listing of CIE colorimetric tables as well as an annotated list of CIE publications.

Commemorates the 75th anniversary of the CIE's System of Colorimetry.

What is computer art? Do the concepts we usually employ to talk about art, such as 'meaning', 'form' or

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'expression' apply to computer art? A Philosophy of Computer Art is the first book to explore these questions.

Dominic Lopes argues that computer art challenges some of the basic tenets of traditional ways of thinking about and making art and that to understand computer art we need to

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place particular emphasis on terms such as 'interactivity' and 'user'.

Drawing on a wealth of examples he also explains how the roles of the computer artist and computer art user distinguishes them from makers and spectators of traditional art forms and argues that computer art allows us to

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understand better the role of
technology as an art medium.

Light and Color in Nature and Art
Colour Reproduction in Electronic
Imaging Systems

Color Theory and Its Application in Art
and Design

Color and Mastering for Digital Cinema

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This book offers detailed coverage of color, colorants, the coloring of materials, and reproducing the color of materials through imaging. It combines the clarity and ease of earlier editions with significant updates about the advancement in color theory and technology. Provides

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guidance for how to use color measurement instrumentation, make a visual assessment, set a visual tolerance, and select a formulation Supplements material with numerical examples, graphs, and illustrations that clarify and explain complex subjects Expands coverage of topics including spatial vision, solid-state

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lighting, cameras and spectrophotometers, and translucent materials.

The textile industry can experience a vast array of problems. Modelling represents a group of techniques that have been widely used to explore the nature of these problems, it can highlight the mechanisms involved and lead to predictions of the

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textile behaviour. This book provides an overview of how textile modelling techniques can be used successfully within the textile industry for solving various problems. The first group of chapters reviews the different types of models and methods available for predicting textile structures and behaviour. Chapters

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include modelling of yarn, woven and nonwoven materials. The second group of chapters presents a selection of case studies, expressing the strengths and limitations and how various models are applied in specific applications. Case studies such as modelling colour properties for textiles and modelling,

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simulation and control of textile dyeing are discussed. With its distinguished editor and international range of contributors, Modelling and predicting textile behaviour is essential reading material for textile technologists, fibre scientists and textile engineers. It will also be beneficial for academics researching this important

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area. Provides an overview of the different types of models and methods that can be used successfully within the textile industry Reviews the structural hierarchy in textile materials fundamental to the modelling of textile fibrous structures Assesses the strengths and weaknesses of different textile models and how specific

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models are applied in different situations
In this vivid and captivating journey
through the colors of an artist's palette,
Victoria Finlay takes us on an enthralling
adventure around the world and through
the ages, illuminating how the colors we
choose to value have determined the
history of culture itself. How did the most

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precious color blue travel all the way from remote lapis mines in Afghanistan to Michelangelo's brush? What is the connection between brown paint and ancient Egyptian mummies? Why did Robin Hood wear Lincoln green? In *Color*, Finlay explores the physical materials that color our world, such as

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precious minerals and insect blood, as well as the social and political meanings that color has carried through time.

Roman emperors used to wear togas dyed with a purple color that was made from an odorous Lebanese shellfish—which probably meant their scent preceded them. In the eighteenth century, black dye was

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called logwood and grew along the Spanish Main. Some of the first indigo plantations were started in America, amazingly enough, by a seventeen-year-old girl named Eliza. And the popular van Gogh painting *White Roses* at Washington's National Gallery had to be renamed after a researcher discovered

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that the flowers were originally done in a pink paint that had faded nearly a century ago. Color is full of extraordinary people, events, and anecdotes—painted all the more dazzling by Finlay's engaging style. Embark upon a thrilling adventure with this intrepid journalist as she travels on a donkey along ancient silk trade routes;

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with the Phoenicians sailing the Mediterranean in search of a special purple shell that garners wealth, sustenance, and prestige; with modern Chilean farmers breeding and bleeding insects for their viscous red blood. The colors that craft our world have never looked so bright.

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This is a guide to imaging techniques for sedimentologists, paleolimnologists, paleoceanographers and microscopists involved in paleoenvironmental reconstruction. Case studies illustrate the range of information obtainable from different sediments (marine, lacustrine, aeolian) and different types of samples

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(cores, embedded blocks, microscopic slides) using different regions of the electromagnetic spectrum (visible, UV, IR, X-ray). Includes comprehensive protocols, guidelines, and recommendations for the use of low cost image analysis techniques.

Energy Science

Understanding Color Management

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Color Appearance Models
Scientific Examination of Art
Principles of Color Technology
Examines the application of scientific
methods to the study and
conservation of art and cultural
properties. This work addresses
scientific topics of broad interest,

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cutting across the boundaries of traditional disciplines and attracting up to 250 leading researchers in the field.

This book directly addresses a long-felt, unsatisfied need of modern color science - an appreciative and technically sound presentation of the

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principles and main offerings of colorimetry to artists and designers, written by one of them. With his unique blend of training and experience in engineering, with his lifelong interest and, latterly, career in art and art education, Dr. Agoston is unusually well prepared to convey

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the message of color science to art and design. His book fulfills the hopes I had when I first heard about him and his book. I foresee important and long-lasting impacts of this book, analogous to those of the epoch-making writings by earlier artist-scientists, such as Leonardo,

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Chevreul, Munsell, and Pope. Nearly all persons who have contributed to color science, recently as well as formerly, were attracted to the study of color by color in art. Use of objective or scientific methods did not result from any cold, detached attitude, but from the inherent

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difficulties of the problems concerning color and its use, by which they were intrigued. Modern education and experience has taught many people how to tackle difficult problems by use of scientific methods. Therefore - color science. Presenting a practical, problem-based

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approach to colour physics, this title describes the key issues encountered in modern colour engineering, including efficient representation of colour information, fourier analysis of reflectance spectra and advanced colorimetric computation. Emphasis is placed on the practical applications

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rather than the techniques themselves, with material structured around key topics, such as colour calibration of visual displays, computer recipe prediction and models for colour-appearance prediction. Each topic is carefully introduced at three levels to enhance

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student understanding. Firstly, theoretical ideas and background information are discussed, explanations of mathematical solutions then follow and finally practical solutions are presented using MATLAB. Includes a compendium of equations and

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numerical data required by the modern colour and imaging scientist. Numerous examples of solutions and algorithms for a wide-range of computational problems in colour science. Provides example scripts using the MATLAB programming language. This text is a must-have for

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students taking courses in colour science, colour chemistry and colour physics as well as technicians and researchers working in the area. Colour and appearance perceptions are very complex psychological phenomena. Written by one of the foremost authorities in the field,

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Principles of Colour and Appearance Measurement is a major two-volume work addressing the key topics required to understand the issues and manage colour effectively. The book addresses how objects appear to viewers, how viewers perceive colour, and the major types of

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instrumentation used to measure colour. Chapters detail the characteristics of light sources and object colour and appearance attributes. They encompass the complexities of human visual perception, including the various causes and types of colour blindness,

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and other unusual visual phenomena. The book also covers colour measurement instruments and methods, as well as fluorescence and whiteness. Principles of Colour Appearance and Measurement is a comprehensive resource for designers, colour technologists,

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colour quality inspectors, product developers, and anyone who uses colour in their work. Addresses the key topics required to understand the issues of colour measure and management Examines how viewers perceive colour and how objects appear to them Reviews the major

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types of instrumentation used to
measure colour

Object Appearance, Colour Perception
and Instrumental Measurement

The Glossary of Prosthodontic Terms

Encyclopedia of Agrophysics

Billmeyer and Saltzman's Principles of
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Digital Video and HD

Henry Kang provides the fundamental color principles and mathematical tools to prepare the reader for a new era of color reproduction, and for subsequent applications in

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multispectral imaging, medical imaging, remote sensing, and machine vision. This book is intended to bridge the gap between color science and computational color technology, putting color

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adaptation, color constancy,
color transforms, color display,
and color rendition in the
domain of vector-matrix
representations and theories.
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understand color profiling software, color measuring instruments, and software applications, such as Adobe Photoshop and proofing RIPs. It also serves as a practical guide to International Color

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Consortium (ICC) profiles describing procedures for managing color with digital cameras, LCD displays, inkjet proofers, digital presses and web browsers and tablets. Updates since the first edition

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include new chapters on iPads, tablets and smartphones; home-cinema projection systems, as well as, with the industrial user in mind, new additional chapters on large-format inkjet for signage and banner printing,

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researchers, color consultants,
and manufacturers. It is a must-
have course text for college and
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arts, graphic communications, digital photography, print media, and imaging arts and sciences. The Society for Imaging Science and Technology (imaging.org) is an international professional

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society whose mission is to keep members and others aware of the latest scientific and technological developments in the greater field of imaging. A major objective of the Wiley-IS&T series is to advance this

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goal at the professional level. The broad scope of the series focuses on imaging in all its aspects, with particular emphasis on digital printing, electronic imaging, image assessment and reproduction,

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image archiving and preservation, color science, pre-press technologies, and hybrid imaging systems.

This is the first complete book of polymer terminology ever published. It contains more than

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7,500 polymeric material terms.
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material brings important
relationships to life, and audio
supplements include
pronunciation of each term.
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