

1. Record Nr.	UNINA9910736499403321
Titolo	Encyclopedia of Color Science and Technology [[electronic resource] /] / edited by Renzo Shamey
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2020
ISBN	3-642-27851-5
Descrizione fisica	1 online resource (3000 p. 2000 illus. in color.)
Disciplina	621.36
Soggetti	Lasers Photonics Signal processing Image processing Speech processing systems Chemical engineering Optical data processing Printing Publishers and publishing Optics, Lasers, Photonics, Optical Devices Signal, Image and Speech Processing Industrial Chemistry/Chemical Engineering Image Processing and Computer Vision Printing and Publishing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	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, 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 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 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 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 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.
