

Pigment Handbook Volume

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the second edition of this work one in a three volume set continues the outstanding compilation of information originally brought together by t c patton it represents the expertise from worldwide authorities in the pigment industry giving readers ready access to such topics as the physical and chemical meaning of color the worldwide market for pigments and the properties and major reasons for use of each of the pigments covered in the text

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novel organic and inorganic pigments that were not even at the research stage when the 1973 version was published most chapters include a new section concerning the effect of the pigment under discussion on human health and on the environment in light of new legislative standards these discussions have special significance this work is complemented by the still current volumes applications and markets volume 2 and characterization and physical relationships volume 3

band 3

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this volume covers the properties and identification of the historical manufacture and chemical structure of carbon cobalt blue asphalt iron oxide and arylide yellow pigments

volume 1 of the handbook of colorants chemistry comprehensively covers the fundamentals of color as well as the underlying scientific principles via the presentation of molecular compositions of inorganic and organic pigments the author explains the chemical and physical production of color and the influence of the physical geometric pigment parameters on the color shade this volume also deals with historical and modern pigments dyes and binders as well as their mode of action the complementary volume 2 in painting art and inks isbn 978 3 11 077700 0 focuses on paints painting and drawing systems used by the painter and craftsman the book is supplemented by a comprehensive bibliography with references to standard works monographs and original papers the reader is provided with a unique overview of the field of color chemistry

as our understanding of the science and functions of color in food has increased the preferred colorants forms of use and legislation regulating their uses have also changed natural colorants for food and nutraceutical uses reflects the current tendency to use natural pigments it details their science technology and applications as well as t

the commercial use of polymers in plastics elastomers coatings and adhesives almost always involves the use of additives to enhance their properties thousands of years natural polymers have been blended with naturally occurring fillers fibers and many other substances in this century the development of synthetic polymers has led to the

development of high performance polymer composites this volume is the only text describing origin and use of additives and their function in polymeric composites a panel of outstanding specialists in the field of additives have placed this in a historic perspective apart from this up to date information on all fillers reinforcing agents stabilizers plasticizers flame retardants accelerators etc can be found in the volume

this is the 4th volume in the artists pigments series published initally by the national gallery of art washington d c and oxford university press this volume is published by the national gallery of art in association with archetype publications the pigments covered in this volume are pigments based on carbon by john winter and elisabeth west fitzhugh iron oxide pigments natural and synthetic kate helwig asphalt catarina bothe cobalt blue ashok roy arylide hansa yellow pigments susan lake and suzanne lomax this series is aimed for the practicing artist to learn a pigment s color hiding power lightfastness toxicity compatibility for the art historian to know how an artist worked what pigments were used whether they were pure or mixed opaque or tranparent layered or not for the conservator to devise techniques necessary for care and conservation of works of art to determine what is original to repair damages to compensate for missing portions of a painted surface for the curator connoisseur to know the history of manufacture and use of pigments to authenticate and assign probable dates to works of art for the conservation scientist to learn identification methods used including optical microscopy microchemical tests x ray diffraction infrared and reflectance spectrophotometry and electron microscopy review volume 4 has the same high standard of content clarity and production as its predecessors making it easy to use for reference and enjoyable to browse icon news september 2007

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