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Paint Flow And Pigment Dispersion: A Rheological Approach To Coating And Ink Technology



Synopsis

Presents researchers and engineers in the fields of coating (paints) and inks with a practical and comprehensive overview of rheological and related aspects of these two industries. This Second Edition contains new chapters on pigment/binder geometry, theoretical aspects of dispersion, and capillarity. Covers: viscosity and viscosity measurement, pigment/binder geometry and their application, critical pigment volume concentrations, surface tension phenomena, pigment dispersions and pigment disperants, solubility and interaction parameters, evaporation and volatility interaction, coating rheology, dispersion equipment, film applicators, mill base formulation and letdown, application rheology.

Book Information

Hardcover: 656 pages

Publisher: Wiley-Interscience; 2 edition (April 18, 1979)

Language: English

ISBN-10: 0471032727

ISBN-13: 978-0471032724

Product Dimensions: 6.3 x 1.4 x 9.2 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 5 customer reviews

Best Sellers Rank: #855,372 in Books (See Top 100 in Books) #32 in Books > Engineering &

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Customer Reviews

Presents researchers and engineers in the fields of coating (paints) and inks with a practical, up-to-date, and comprehensive overview of the current rheological and related aspects of these two industries. Second Edition contains new chapters on pigment/binder geometry, theoretical aspects of dispersion, and capillarity. Covers: viscosity and viscosity measurement, pigment/binder geometry and their application, critical pigment volume concentrations, surface tension phenomena, pigment dispersions and pigment disperants, solubility and interaction parameters, evaporation and volatility interaction, coating rheology, dispersion equipment, film applicators, mill base formulation and letdown, application rheology.

This book is old enough that I doubt Temple Patton is around to write a third edition. So do not expect to learn all of the latest trends in paint chemistry or the latest analytical techniques from the book. What you can learn is how to work with coatings on a practical day to day basis. It covers the most widely used (and still common) techniques and concepts. But most importantly, it is well written: it is clear, it explains things well, you walk away with a feel for how to approach problems rather than a compendium of facts. Some might call it a bible, but I could make a case for calling it a primer instead (pun intended). Either way it is worth taking the time to read it (and the price).

Seem to be good quality too. It's very easy to work with. I did a overall test after I recieved it and found it is really good, especially its design. Very nice product! two thumbs up Exactly what we were hoping for.

Every paint maker must have this book on the shelf. It covers an area which would be otherwise almost completely dark, since there are not many books which deal with paint components, paint making and paint rheology in the same volume. For artist's paints formulator, everything is useful in this famous reference. For those who make industrial coatings, even if the formulas of industrial paints have changed since its publication, the principles of dispersion and the theoretical knowledges exposed here are still accurate and have still to be known by engineers. This book presents them clearly.

The book is very important for every person who want to enter the realm of coating technology. But the weakness of this book is also obvious: it is too old to keep abreast with the increasing development of coating industry, for instances the emergence of green coating :high build, solventless, powder coating , water-borne coating etc., the new application procedure , such as cvd, dvd, self-leveling. I think it is time for Mr. Patton to roll up his sleeves to review the theory and practice of coating that have come up since 1979 . God bless Mr. Patton to present his new edition to his readers who is waiting so long for his new book.

This is an old book, but much has remained the same since it was written. It effectively lays out the requirements for the dispersion of pigment in to polymer solutions and emulsions, using various types of dispersing equipment.

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