



# Organic Coating Technology

**Douglas Williams, Paul Randall**



## **Organic Coating Technology:**

**Organic Coatings** Zeno W. Wicks, Jr., Frank N. Jones, Socrates Peter Pappas, Douglas A. Wicks, 2007-03-15 Third Edition brings acclaimed text thoroughly up to date with the latest organic coatings technology. Organic Coatings Third Edition is an unparalleled reference and text for organic coatings technology and its myriad applications. It begins with discussions of key principles of coatings, then thoroughly explores raw materials, physical concepts, formulations, and applications. Scientists, engineers, and paint formulators all gain a deeper understanding of the principles underlying the technology and learn how to use these principles in the development, production, and application of organic coatings. The four authors, all leading industry experts, offer a unique approach to the topic that correlates the empirical technology of coatings with the underlying science. This Third Edition has been completely revised and updated to reflect numerous changes in the field, including changes driven by increasing pressure to lower VOC emissions, reduce energy requirements, and eliminate potential health hazards from organic coatings components. In addition, the authors have developed new material to make the text more accessible for scientists and engineers first entering the field, as well as for students taking coatings courses. At the same time, the hallmarks that distinguished the two previous editions have been retained, including Troubleshooting guidance for coatings scientists and technologists, clear differentiation between established principles and hypotheses requiring further research, precise definitions of coatings industry terminology, extensive references to the current literature, and hundreds of figures that help readers visualize key concepts and techniques. Whether you are just entering the field of organic coatings and need a broad overview, or you are an experienced professional who needs a sophisticated reference, you can depend on Organic Coatings to give you the information and answers you need.

**Organic Coating Technology** Henry Fleming Payne, 1954     Organic Coating Technology Henry Fleming PAYNE, 1961     **Organic Coatings** Zeno W. Wicks (Jr.), Frank N. Jones, S. Peter Pappas, 1999-03-05. The Second Edition of this highly successful reference presents a thoroughly updated systematic survey of organic coatings technology and its numerous applications. Written by three industry experts, this self-contained volume painstakingly revises and condenses the material from the previous two-part edition, making it more useful for scientists and engineers first entering the field, as well as for students in coatings courses. Incorporating recent developments, Organic Coatings Science and Technology Second Edition helps scientists, engineers, and paint formulators to better understand the principles underlying the technology and use them effectively in the development, production, and application of various types of coatings. It correlates the technology to the current state of knowledge in the field, addressing the complexities inherent in the formulation process, which are often overlooked in the professional literature. The authors introduce readers to the subject with seven chapters on key properties of coatings, then proceed to cover raw materials, binders, solvents, pigments, physical concepts, formulations, and applications. Each topic is carefully summarized and accompanied by extensive references to sources of detailed information, particularly useful in self-study. In addition to clearly defining industry terms, the book

includes hundreds of figures as well as troubleshooting advice for organic surface polymer and coatings scientists engineers and paint formulators in all branches of the coatings industry The material is also applicable to the related areas of printing inks adhesives and parts of the plastics industry From the reviews of the First Edition Excellently written in a clear and vivid style a valuable source of information Progress in Organic Coatings This book does an excellent job of connecting the theory of polymer chemistry to the practical facts of organic coatings an extremely useful reference Choice Substantially reorganized in this accessible self contained volume Organic Coatings Science and Technology Second Edition provides a systematic up to date survey of the principles underlying the production and use of organic coatings and paints Complete with 250 figures this immensely useful text reference includes New developments in the field since the publication of the First Edition Concise descriptions of raw materials physical concepts formulation applications and properties Troubleshooting guidance for coatings scientists and technologists Precise definitions of coatings industry terminology for newcomers to the field Extensive references reflecting current literature An appendix listing useful sources

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