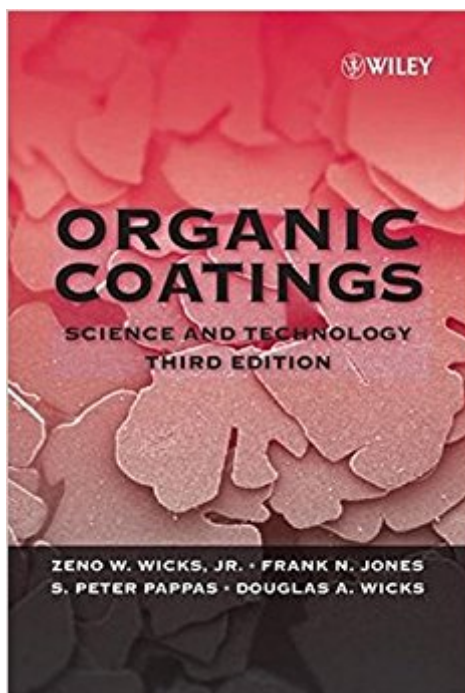


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# Organic Coatings: Science And Technology



## Synopsis

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 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.

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## Customer Reviews

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 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.

ZENO W. WICKS, Jr., PhD, has more than fifty years of experience in the coatings field, including twenty-eight years with Inmont Corporation and eleven years as Professor and Chairman of the Department of Polymers and Coatings at North Dakota State University. Currently working as a consultant, Dr. Wicks is the recipient of the Mattiello Memorial Lectureship, the Roy W. Tess Award, and four Roon Awards. FRANK N. JONES, PhD, is a Research Professor at the Coatings Research Institute of Eastern Michigan University, as well as the Principal of Coatings Consulting Services, LLC. He is the recipient of the Mattiello Memorial Lectureship and three Roon Awards. S. PETER PAPPAS, PhD, is currently a consultant who teaches frequent technical short courses. Dr. Pappas

has been a corporate scientist at Kodak Polychrome Graphics, scientific fellow at Loctite, and a professor in the Department of Polymers and Coatings at North Dakota State University. He is the recipient of five Roon Awards. DOUGLAS A. WICKS, PhD, is a Professor in the Department of Polymer Science and Engineering at the University of Southern Mississippi.

This book was a huge disappointment. The Sentence structure is poor. Some things are repeated three times in the same paragraph. It's almost like the author was too lazy to proof-read his own text. Proof reading by a professional editor would take this text a long way. It is unfortunate that this book being in the 3rd edition still has issues with proper writing. Undefined terms abound. Examples that are not supported by references everywhere. Technical jargon that is not explained. Confusing diagrams without appropriate explanations. Two different subjects jumbled together into the same paragraph for no apparent reason. No explanations or points of reference for physical units. On and on and on, very disappointed. Stay away

Dear Readers I knew Zeno Wicks Jr. personally. He taught me several hundred hours of Polymers and Coatings at N.D.S.U. in Fargo, N.D. At that time I had forgotten all of my Chemistry and I knew nothing about a Polymer. He was really a great person to know and he was extremely approachable if you had a problem in either R & D, Q.C., or in production. Also he had a keen sense of marketing as well. He was also a great teacher and a good writer. He was also very skilled at getting a debate going on serious issues in these same fields mentioned above. He would invite the students to the evening brainstorming sessions after regular classes in the day. It could get pretty hot in those debates but witnessing these question and answer sessions allowed me to see just how far industry and the people in industry can go to turn out new products and how talented they are in creating new and "smarter" molecules and compounds. All-in-all quite inspirational. Dr. Wicks impressed on me that economies (especially America of course) get going by people creating new products. Not by just being satisfied with the old ones. It was really this "American Way" (although he didn't call it that, I do) philosophy that used to excite me. It was like mixing Political Science with Natural Science and I always enjoyed that kind of analysis. Zeno as he asked us to call him had not only the educational prerequisites but he had had decades of experience in industry to be able to illuminate his arguments for the "whys?" and "hows?" of trying harder to get better results. He wasn't just a "book" guy. There were the "horror stories" of what could go wrong...these unfortunately didn't get into the book....you had to be there to get the real rundown on what can happen if things didn't go right. But then there were the success stories which were also worth their weight in gold....or other

precious commodities.sjw

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