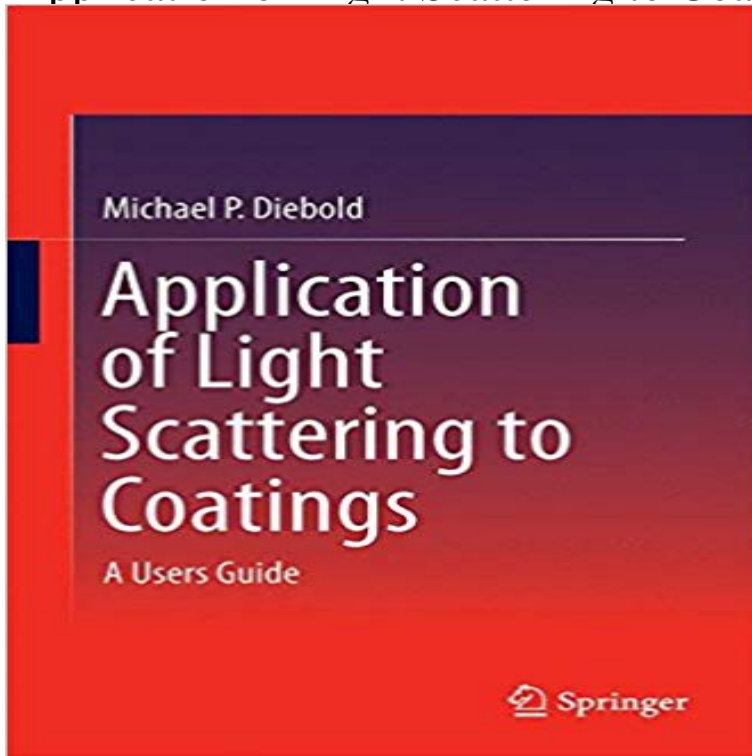


Application of Light Scattering to Coatings: A Users Guide



The book begins with the fundamentals of light scattering, first by individual particles, then by small groups of particles, and finally by the trillions of particles present in a real-life paint film. From there, Dr. Diebold focuses on application of these fundamentals to paint formulation. The scope includes both theory and practice with an emphasis on application (from both performance and cost standpoints). The book gives a clear understanding of light scattering principles and application of these principles to paint formulation (with a focus on TiO₂ the strongest scattering material available to paint formulators). The reader will be in a position to formulate and reformulate paints for maximum cost effectiveness. Application of Light Scattering to Coatings: A Users Guide is ideal for a range of professions working in paint formulation and manufacturing. This book also: Distills difficult theories (light scattering, paint formulation) into easy-to-understand concepts. Adopts a qualitative perspective, with minimal use of complex equations, making key scientific concepts accessible to all paint formulators without a prerequisite of higher mathematics. Offers an accessible resource for formulators new to the field while maintaining a high degree of relevance to experienced coating formulators. Discusses the interplay between resin, TiO₂ pigments, and paint extenders with regard to paint performance and cost. Presents an unbiased assessment of opacifying potential of TiO₂ alternatives. Outlines strategies for minimizing overall costs of paints.

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