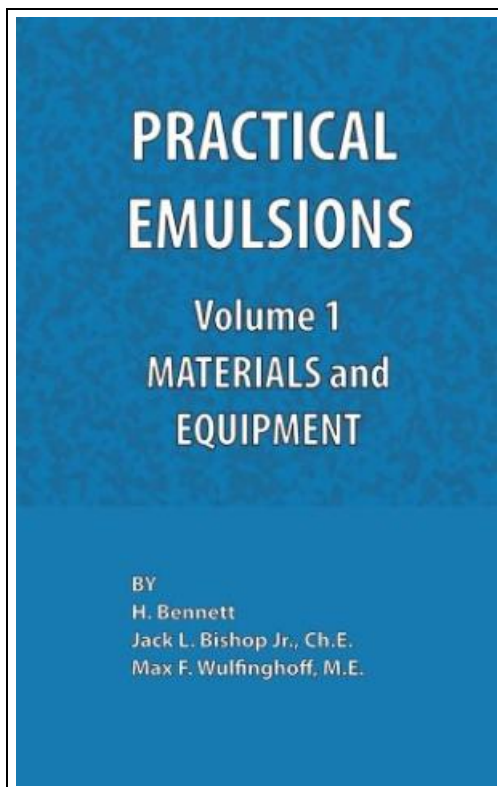


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Reviews

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(Paula Gutkowski)

PRACTICAL EMULSIONS, VOLUME 1, MATERIALS AND EQUIPMENT (HARDBACK)



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Chemical Publishing Co Inc., U.S., United States, 1968. Hardback. Book Condition: New. 3rd. 249 x 155 mm. Language: English . Brand New Book ***** Print on Demand *****.CONTENTS - INTRODUCTION - 1. BASIC CONSIDERATIONS - Solutions-Suspensions-Emulsions-Surface Activity - 2. PROPERTIES OF EMULSIONS - Particle size and arrangement; Rheology; Micelle Theory; Stability and Interfacial Phenomena; Causes of Unstable Emulsions - 3. INGREDIENTS AND ADDITIVES - Surfactants-Emulsifying Agents; Wetting Agents; Foamers; Protective Colloids; Preservatives - 4. ANALYSIS AND TESTING OF EMULSIONS - Type of Emulsion; Density; Viscosity; Surface Tension; Particle Size; Water; PH-Color OdorCorrosion; Stability; Performance; Analytical Procedures; ASTM Specifications - 5. TECHNIQUES OF EMULSIFICATION - English Method-Continental Method - 6. EMULSIFYING EQUIPMENT - Low-Shear-High-Shear-Rotor-Stator; Pressurized Fluid; Vibrational Devices; Laboratory Equipment - 7. EMULSION PLANTS AND PRODUCTION MACHINERY - Over-all Plan; Modes of Operation; Power Requirements; Mixing Tanks; Pumps; Conveyors; Materials of Construction; Instrumentation; Packaging - 8. SELECTED TOPICS - Formulation of Emulsions-HLB-Biodegradability - Regulations - BIBLIOGRAPHY - LIST OF EMULSIFYING AGENTS - SUPPLIERS OF EMULSIFYING AGENTS - GLOSSARY - INDEX - Introduction - Emulsions, though not new, are finding new and wider applications daily. One of the first references to emulsions was recorded by Galen (131-c.201), the Greek physician. Beginning with that early reference to the emulsifying power of beeswax, the art and science of emulsification has flourished. Emulsions are prepared and used for a variety of reasons. As oil paint cannot be applied to a damp surface, it is emulsified in water. The oil paint, then, in the form of an emulsion, can be applied to a damp surface. Therefore, the emulsion can change the application characteristics of a material. Water is a desirable, cheap diluent, and an emulsion is an easy method of using water to dilute materials that are not soluble in water. In addition, the fire hazard of..



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