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Publisher *Taylor & Francis*

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## Separation & Purification Reviews

Publication details, including instructions for authors and subscription information:

<http://www.informaworld.com/smpp/title~content=t713597294>

**A Review of: "Encyclopedia of Emulsion Technology, Volume 3—Basic Theory, Measurement, Application, P. Becher Ed., Marcel Dekker, New York, 1988; hardbound, 437 pages. \$115.00"**

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**To cite this Article** van Oss, Carel J.(1987) 'A Review of: "Encyclopedia of Emulsion Technology, Volume 3—Basic Theory, Measurement, Application, P. Becher Ed., Marcel Dekker, New York, 1988; hardbound, 437 pages. \$115.00"', *Separation & Purification Reviews*, 16: 2, 227

**To link to this Article: DOI:** 10.1080/03602548708058545

**URL:** <http://dx.doi.org/10.1080/03602548708058545>

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BOOK REVIEW

ENCYCLOPEDIA OF EMULSION TECHNOLOGY

Volume 3 - Basic Theory, Measurement, Application  
P. Becher, Ed.

Marcel Dekker, New York, 1988; hardbound, 437 pages, \$115.00

This work supplements and updates the two earlier volumes (for a review of Volume 1, on Basic Theory, see this Journal, 12, 217, 1983). The 8 chapters of volume 3 treat: 1. Fundamentals of Colloidal Stability in Quiescent Media, by D.H. Melik and H.S. Fogler; 2. Phase Transformation and Emulsion Inversion on the Basis of Catastrophe Theory, by J.L. Salager; 3. Determination of Particle Size, by C. Orr; 4. Emulsion Structure by Neutron Scattering, by H. Hoffmann and H. Thurn; 5. Use of Triangular Diagrams in the Study of Emulsions, by R.A. Mackay; 6. Use of Glyphs to Organize Data in Multivariable Systems, by K.J. Lissant; 7. Emulsion Explosives by H.A. Bampfield and J. Cooper; and 8. Applications in the Petroleum Industry, by B.W. Davis. The book ends with an extensive bibliographical update of work on the Hydrophile-Lipophile Balance (HLB) by the Editor, and a subject index.

Melik and Fogler (Ch. 1) review the DLVO theory, and then concentrate on Brownian and gravitational influences on flocculation kinetics. Orr (Ch. 3) expertly reviews a number of the particle size determination methods most applicable to emulsions. This reviewer only regrets that so little attention is paid to the classical analytical ultracentrifugation methodology, which still is among the most powerful of all these methods, and is capable of yielding interesting data even on microemulsions. Hoffmann and Thurn's chapter (4) on small-angle neutron scattering (SANS), giving SANS theory as well as results, is especially timely.

This volume, like its predecessor(s), is highly recommended to all separation scientists, colloid and surface chemists, and chemical engineers.

Carel J. van Oss