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By Jean-Paul Duroudier

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Solid-Solid, Fluid-Solid, Fluid-Fluid Mixers, part of the *Industrial Equipment for Chemical Engineering* set, presents an in-depth study of a variety of aspects within the field of chemical engineering. This volume is both theoretical and practical, focusing on emulsions of one liquid into another, the dispersal of a divided solid into a liquid, and a gas into a liquid.

The book includes examples of mixtures of two powders, the process of dissolution of a powder in a liquid, and the homogenization of a pasty product. The types of devices needed, the criterion for homogeneity, the expended mechanical power, the flow processed, and the time required for the operation are also discussed.

The author provides methods needed for understanding the equipment used in applied thermodynamics in the hope of encouraging students and engineers to self build the programs they need. Chapters are complemented with appendices that provide additional information and associated references.

- Presents advanced study on the dispersion of a gas in a liquid and the dispersion of a liquid insoluble in another liquid (emulsification)
- Includes specific cases of dispersion and dissolution of powders
- Provides criteria for evaluating the homogeneity of a mixture

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Editorial Review

About the Author

Jean-Paul Duroudier is an engineer from Ecole centrale de Paris, France. He has devoted his professional life to the study of materials in chemical engineering.

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