Gas-Liquid and Liquid-Liquid Separators
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Liquid-Liquid Separators

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A Note from the Authors

*Gulf Equipment Guides* series serves as a quick reference for the design, selection, specification, installation, operation, testing, and trouble-shooting of surface production equipment. The *Gulf Equipment Guides* series consists of multiple volumes, each of which covers a specific area in surface production equipment. These guides cover essentially the same topics included in the “Surface Production Operations” series but omit the proofs of equations, example problems and solutions which belong more properly in a handbook. This book contains fewer pages and is therefore more focused. The reader is referred to the corresponding volume of the “Surface Production Operations” series for further details and additional information such as derivations of some of the equations, example problems and solutions and suggested test questions.
About the Book

Gas–Liquid and Liquid–Liquid Separators is the first volume in the *Gulf Equipment Guides* series. Each guide serves as a quick reference resource. The series is intended to provide the most comprehensive coverage you’ll find today dealing with surface production operation in its various stages, from initial entry into the flowline through gas–liquid and liquid–liquid separation; emulsions, oil and water treating; water injection; hydrate prediction and prevention; gas dehydration; and gas conditioning and processing equipment to the exiting pipeline.

Featured in this volume are such important topics as basic principles, process selection, gas–liquid separators, liquid–liquid separators, and mechanical design of pressure vessels. This volume as well as all volumes in the *Gulf Equipment Guides* series, serve the practicing engineer and senior field personnel by providing organized design procedures; details on suitable equipment for application selection; and charts, tables, and nomographs in readily useable form. Facility engineers, process engineers, designers, operations engineers, and senior production operators will develop a “feel” for the important parameters in designing, selecting, specifying, and trouble-shooting surface production facilities. Readers will understand the uncertainties and assumptions inherent in designing and operating the equipment in these systems and the limitations, advantages, and disadvantages associated with their use.