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Chemical reactor analysis and design fundamentals / James B. Rawlings, Department of Chemical and Biological Engineering, University of Wisconsin, Madison, Wisconsin ; John G. Ekerdt, Department of Chemical Engineering, The University of Texas, Austin, Texas

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The design of the reactor is determined by many factors but of particular importance are the thermodynamics and kinetics of the chemical reactions being carried out. The two main types of reactor are termed batch and continuous. Batch reactors. Batch reactors are used for most of the reactions carried out in a laboratory. The reactants are placed in a test-tube, flask or beaker.

Chemical Reactors > Design of The Reactors > The ...

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Charles Wyman has a BS degree in chemical engineering from the University of Massachusetts, MA and PhD degrees in chemical engineering from Princeton University, and an MBA from the University of Denver. He has contributed over 155 peer-reviewed papers, 25 book chapters, many edited volumes, over 250 presentations many of which were invited, about 25 technical reports, and 21 patents.

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lower than those of chemical scrubbing since the design of both systems are very similar, with slightly more ancillary equipment for the chemical scrubber. In the particular case of H₂S, chemical scrubbing is effective at gas contact times as short as 1.3–2.5 seconds, thus small footprints are sufficient for treating large air streams.

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