



Analysis of Hydrodynamic and Acoustic Cavitation reactors: Numerical and experimental analysis, applications, operations and scale-up

Amit Mahulkar, Aniruddha Pandit

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Cavitation is an extremely attractive option to improvise the efficacy of conventional unit operation and unit processes, for its ability to provide energy in concentrated form and at the location of transformation.

Cavitation reactors have tremendous market potential for applications ranging from synthesis of biodiesel to specialty chemicals and from effluent treatment to process applications like online mixing. This book explains the working of various cavitation reactors and gives guidelines for its efficient operation and scale-up. This book outlines bubble dynamics models, hydrodynamics models (CFD) and kinetic models for hydrodynamic and acoustic cavitation reactors, to quantify the extent of cavitationally induced microbial cell disruption for applications like water disinfection and ballast water treatment, emulsification, nanoparticle synthesis etc. A novel method of steam induced cavitation for further improving the efficacy of the cavitation reactor is presented with ample experimental and numerical analysis. This book is addressed at researchers and practicing engineers who would like to get insight into cavitation reactor operations.

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Kelly Jackson:

Spent a free time and energy to be fun activity to complete! A lot of people spent their down time with their family, or their friends. Usually they carrying out activity like watching television, likely to beach, or picnic in the park. They actually doing same every week. Do you feel it? Do you wish to something different to fill your own personal free time/ holiday? Could be reading a book is usually option to fill your cost-free time/ holiday. The first thing that you'll ask may be what kinds of book that you should read. If you want to test look for book, may be the book untitled Analysis of Hydrodynamic and Acoustic Cavitation reactors: Numerical and experimental analysis, applications, operations and scale-up can be excellent book to read. May be it is usually best activity to you.

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