

Population Balances Theory And Applications To Particulate Systems In Engineering

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Population Balances Theory And Applications

Population Balances provides a clear and general treatment of population balance models of dispersed phase systems while encompassing their mathematical structure, derivation, formulation, solution, and identification, through inverse problems and stochastic formulations. A wide variety of applications is presented with a focus on both the unifying

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features of the underlying theory and their wide range of applicability.

Population Balances: Theory and Applications to ...

Population Balances: Theory and Applications to Particulate Systems in Engineering - Ebook written by Doraiswami Ramkrishna. Read this book using Google Play Books app on your PC, android, iOS...

Population Balances: Theory and Applications to ...

Population Balances provides the only available treatment of the solution of inverse problems essential for identification of population balance models for breakage and aggregation processes, particle nucleation, growth processes, and more. This book is especially useful for process engineers interested in the simulation and control of particulate systems.

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Population Balances | ScienceDirect

Population Balances: Theory and Applications to Particulate Systems in Engineering. By Richard G. Rice (Author) In Chemistry, Engineering. Engineers encounter particles in a variety of systems. The particles are either naturally present or engineered into these systems. In

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Chemical engineers have put population balances to most use, with applications in the areas of crystallization; gas-liquid, liquid-

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liquid, and solid-liquid dispersions; liquid membrane systems; fluidized bed reactors; aerosol reactors; and microbial cultures.

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The detailed population balance model provides a general framework for describing the discrete phase in multiphase flow processes (Ramkrishna, 2000). In the context of the population balances, each...

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Population balances are of key relevance to a very diverse group of scientists, including astrophysicists, high-energy physicists, geophysicists, colloid chemists, biophysicists, materials scientists, chemical engineers, and meteorologists. Chemical engineers have put population balances to most use, with applications in the areas of crystallization; gas-liquid, liquid-liquid, and solid-liquid dispersions; liquid membrane systems;

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fluidized bed reactors; aerosol reactors; and microbial cultures.

Population Balances - 1st Edition

Engineers encounter particles in a variety of systems. The particles are either naturally present or engineered into these systems. In either case these particles often significantly affect the behavior of such systems. This book provides a framework for analyzing these dispersed phase systems and describes how to synthesize the behavior of the population particles and their environment from ...

Population balances : theory and applications to ...

Population balance equations (PBEs) have been introduced in several branches of modern science, mainly in Chemical Engineering, to describe the evolution of a population of particles.

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Population balance equation - Wikipedia

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Population balances : theory and applications to ...

Although the Boltzmann equation, which already foretold the technique, is more than a century old, the application of popula-

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tion balances for a variety of engineering problems began only less than 50 years ago. The author of the book was among the first who worked in this field.

Books - AIChE

the capacity of population balance to address the evolutionary aspects of a dispersion that affords its distinctive value to the analysis of dispersed phase systems.

Population Balances - ResearchGate

Application of Population Balance Theory for Dynamic Modeling of Methane and Ethane Hydrate Formation Processes
Mohammad S. Khatami Chemical Engineering Department,
Faculty of Engineering, Ferdowsi University of Mashhad,
Mashhad 9177948944, Iran

Application of Population Balance Theory for Dynamic ...

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Population balance equations (PBEs) are used to model particulate systems in a variety of fields and applications ranging from solid-liquid systems such as crystallization to emulsions in food processing to cellular systems (Ramkrishna and Mahoney 2002; Ramkrishna 2000).

A population balance equation model of aggregation ...

A coke distribution model of catalyst particles in three-dimensional space was developed based on population balance theory, and an analytic expression of coke distribution for zero-dimensional time-independent problem was deduced.

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