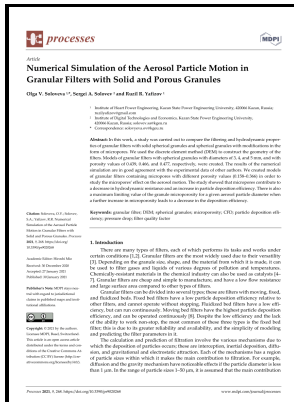


Granular filtration of aerosols and hydrosols

Butterworths - Principles of Filtration



Description: -

- Liquids.

Aerosols.

Filters and filtration. Granular filtration of aerosols and hydrosols

- Butterworths series in chemical engineering Granular filtration of aerosols and hydrosols

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Tags: #Direct #simulation #of #initial #filtration #phenomena #within #highly #porous #media

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For solid—liquid systems, Purchas 1967 classifies these processes according to the type of driving force applied: 1 gravity, 2 vacuum, 3 pressure, and 4 centrifugal force. Initial filtration phenomena within highly porous filter media—ceramic foam filters CFF—were simulated by numerically solving the Navier-Stokes equations and the general transport equation for suspended particles. The crossflow feature has the advantage of reduced cake formation.

Granular Filtration of Aerosols and Hydrosols / Edition 2 by Chi Tien, B.V. Ramarao

Chemists, technologists and engineers new to aerosol science will find this book an essential companion in their studies of the subject.

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During his teaching career, Professor Tien also taught at the University of Tulsa, University of Windsor, National University of Singapore, and Nanyang Technological University. While both processes are concerned with separating or removing certain species present in a fluid stream, the sizes of these species, in general, differ greatly.

Granular Filtration of Aerosols and Hydrosols. Edition No. 2

Yoshida University of Hiroshima, K. He authored and coauthored a number of books including Granular Filtration of Aerosols and Hydrosols, 1st Ed.

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The extent of cake formation can be easily related to the filtration rate. The experimental filter he designed from 1827 to 1828 had a top surface of 1000 ft² and a filter medium composed of 2 ft of sand and 2 ft of gravel.

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In the former case, the fibers natural or chemical fibers, cellulose, metal or glass fibers are pressed together in felt or spun or woven into cloth fabric such that the filter media pores are relatively small as compared with the size of the particles to be removed. Thus, I hope the book will be useful to those beginning research or development work in granular filtration.

Granular Filtration of Aerosols and Hydrosols

I must, of course, acknowledge my former coworkers, particularly Profs A. While the processes classified as fluid—particle separation are too numerous to be cited individually, it is generally accepted that fluid—particle separation encompasses cake filtration, granular and fibrous filtration, cartridge and membrane filtration, cycloning, thickening, flocculation, dewatering and expression, scrubbing, and electrostatic precipitation.

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