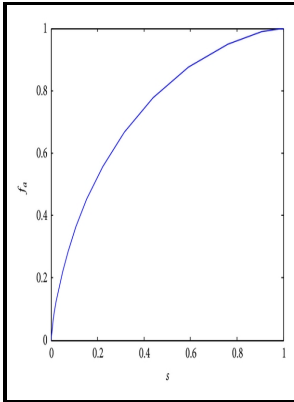


Granular filtration of aerosols and hydrosols

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

Notes: Includes bibliographies and indexes.

This edition was published in 1989



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Granular Filtration of Aerosols and Hydrosols

Under such condition, particle transport in the fluid may indeed be treated as a mass-transfer process. Tsubaki University of Nagoya , S. Yao for their proofreading; and Kathleen J.

Introduction to Cake Filtration: Analyses, Experiments and Applications eBook: Tien, Chi: localize-img.justmote.me.au: Kindle Store

Thus, the operation of fixed-bed adsorption is very similar to that of granular filtration namely both are semicontinuous. Despite these similarities, the analogy between granular filtration and adsorption is somewhat limited. We are particularly grateful to Renbi Bai for the information he gave us in organizing the Supplement.

Introduction to Cake Filtration: Analyses, Experiments and Applications eBook: Tien, Chi: localize-img.justmote.me.au: Kindle Store

This new edition contains extra material on stochastic simulations and the Lattice Boltzmann approach for studying deposition in granular media; more on prediction methods for collection efficiency, and a chapter on the various available software programmes. Both fabric filtration and membrane filtration operate on the exclusion principle as mentioned previously. Two new chapters have been added: one on historical aspects of aerosol measurements and the other on real-time single particle analysis.

Read Granular Filtration of Aerosols and Hydrosols Online by Chi Tien and B.V. Ramarao

James Simpson 1799—1869 , an engineer of the Chelsea Water Co.

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Crossflow membrane filtration by definition is, therefore, a cake filtration process but differs from the conventional cake filtration by the fact that the direction of the feed flow is normal to that of the filtrate flow.

Granular Bed Filters

Chi Tien, Syracuse, New York 1 INTRODUCTION Granular filtration is a fluid—solid separation process commonly applied to remove minute quantities of small particles from various kinds of fluids. On the other hand, in granular filters, significant deposition means a decrease in the filter porosity as well as a change in the structure of the filter medium. Gimbel Engler—Bunte Institute, Karlsruhe, M.

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It is interesting to note that this void stands in contrast to the fact that granular filtration is not only an engineering practice of long standing but has also enjoyed resurgent attention of late, evidenced by the numerous recent studies of its research and development. Conventional cake filtration is operated by passing suspensions to be treated normal to the medium surface, with feed and filtrate flowing in the same direction.

Granular Filtration of Aerosols and Hydrosols. Edition No. 2

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. Besides water or air, systems which may be treated by granular filtration include such diverse substances as flue gas, combustion products, molten metal, petrochemical feedstocks, polymers, alcoholic, or nonalcoholic beverages.

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