



## Flash Reaction Processes Nato Science Series E

By -

Springer. Paperback. Book Condition: New. Paperback. 375 pages. Dimensions: 9.4in. x 6.3in. x 0.9in. Flash Reaction Processes brings together for the first time contributions by researchers working on metal refining processes, mineral calcination processes and the plasma processing of ceramics. Distinctive features and problems common to these processes are discussed and compared: some physical and/or chemical transformation of an inorganic material is sought by means of very rapid heating and cooling; the feed materials are usually in particular form, often finely divided; the heating is achieved by combustion gases, plasma jets or microwaves; the products are of scientific and/or commercial interest. The contributions have been grouped as follows: (i) fundamental studies of the physics and chemistry of processes driven by the rapid heating of particles of reactive material; (ii) mathematical modelling of such processes; (iii) experimental studies on the laboratory scale; (iv) experience from the operation of pilot scale and full scale flash reactors; and (v) processes which may benefit from the application of flash heating technology. The book will be of interest to anyone working on fundamental or applied aspects of modern metal refining, mineral processing, plasma ceramic coating technology, rapid prototyping or other processes which require controlled transformation of...



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