

Pharmaceutical Powder Compaction Technology

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compaction of powder constituents both active ingredient and excipients is examined to ensure consistent and reproducible disintegration and dispersion profiles revised to reflect modern pharmaceutical compacting techniques this second edition of pharmaceutical powder compaction technology guides pharmaceutical engineers formulation scientists

this unique reference examines the modern pharmaceutical compacting techniques used to form tablets out of powders describing the physical structure of pharmaceutical compacts the bonding phenomena that occur during powder compaction and the compression mechanisms of pharmaceutical particles

volume is indexed by thomson reuters bci
powder metallurgy is one of the leading processes used for forming engineering components the technology as developed at the beginning of the 20th century has since advanced significantly from both the materials and energy conservation points of view novel and automated equipment has played a significant role in enhancing the growth of the powder metallurgy industry the present work includes in addition to the editor s introductory paper eleven invited papers from organizations of international repute in brief the book presents expert assessments from the major metal powder and powder metallurgy equipment makers in the world this distinguishes it from other works which are contributed mainly by academics the book concentrates on particular topics of interest and does not attempt to be comprehensive

proceedings of the 4th international latin american conference on powder technology
november 19 21 2003 guarujá são paulo brazil

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annotation contents
1 introduction 2 metal powder production 3 metal powder characteristics 4 metal powder treatment 5 metal powder compaction 6 sintering 7 hot consolidation 8 secondary treatment 9 powder injection moulding 10 quality control of powder metallurgy materials

quot the rapid developments in expert systems in recent years have enabled accumulated experience and knowledge to be applied in the powder metallurgy field this calls for careful modelling of the processes together with sound appreciation of both powder metallurgy and knowledge based systems a knowledge based system for powder metallurgy technology introduces the reader to both fields in the early chapters and then illustrates the advantages of the use of expert systems in this significant manufacturing process book jacket

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compiling presentations from scientists engineers and manufacturers this book will include papers on powder making powder conditions reactive powder handling powder characterization hot and cold uniaxial pressing hot and cold isostatic pressing powder rolling extrusion sintering heat treatment and processing facilities rapid and directional solidification consolidation in situ synthesis of composites ceramics and intermetallics atmospheric and low pressure plasma spray flame spray wire arc spray alloy and materials development mechanical behavior of bulk powder based materials physical based mathematical models theories simulation micromechanisms and end use products from materials science technology 2003 to be held in chicago illinois november 9 12 2003

the past decade has seen an explosive growth of interest in the physics of granular materials granular media are comprised of macroscopic objects with internal degrees of freedom granular assemblies exhibit phenomena that incorporate the properties of traditional solids liquids and gases making it a unique state in many ways the granular state is a generalized state of matter this new volume from the materials research society brings together researchers from many countries and disciplines to assess issues and problems concerned with the collective behavior of granular assemblies as encountered in the context of various applications in particular these applications include ceramic science shock propagation and absorption design and maintenance of stable natural and artificial structures processing of pharmaceuticals and self assembly processes associated with the synthesis of ultrahigh density magnetic tapes the volume should be of value to researchers involved in exploring granular material based technologies and is expected to stimulate further research in this arena topics include electromagnetic fields structural issues flow behavior and dynamical problems

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