

Sintering Theory And Practice

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Sintering Theory And Practice

From a vast professional literature, Sintering Theory and Practice emerges as the only comprehensive, systematic, and self-contained volume on the subject. Covering all aspects of sintering as a processing topic, including materials, processes, theories, and the overall state of the art, the book

Sintering Theory and Practice: German, Randall M ...

Sintering Theory and Practice | Wiley. Although sintering is an essential process in the manufacture of ceramics and certain metals, as well as several other industrial operations, until now, no single book has treated both the background theory and the practical application of this complex and often delicate procedure.

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Sintering is a thermal treatment process in which a powder or a porous material, already formed into the required shape, is converted into a useful article with the requisite microstructure. Sintering can be classified as solid-state, viscous, liquid-phase, and pressure-assisted (or pressure) sintering.

Sintering Theory and Fundamentals | Powder Metallurgy ...

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For porous bodies compacted from metal powders, the phenomenological theory of sintering is capable merely of taking into account the so-called "geometrical" factor, which controls the rate densification, and to reduce the problem of sintering kinetics (in particular, densification kinetics) to a study of the dependence of the viscosity coefficient η on temperature, acting stresses, and time, i.e., the specific problems in metal physics.

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Sintering theory was traditionally developed either as the application of complex diffusion or viscous flow mechanisms to a simple geometry or as complex evolution of microstructure with simple diffusion mechanisms.

SINTERING THEORY - Materialwissenschaft

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Overview. Although sintering is an essential process in the manufacture of ceramics and certain metals, as well as several other industrial operations, until now, no single book has treated both the background theory and the practical application of this complex and often delicate procedure. In Sintering Theory and Practice, leading researcher and materials engineer Randall M. German presents a comprehensive treatment of this subject that will be of great use to manufacturers and scientists alike.

Sintering Theory and Practice / Edition 1 by Randall M ...

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Sintering Theory and Practice - NASA/ADS

Sintering practice is diverse due to the range of materials, applications, and technical goals. Cost is a major factor in determining the way that a component is sintered. A first concern is always with delivering the desired properties in the specified component shape, but the second concern is always cost.

Sintering: From Empirical Observations to Scientific ...

Sintering or frittage is the process of compacting and forming a solid mass of material by heat or pressure without melting it to the point of liquefaction. Sintering happens naturally in mineral deposits or as a manufacturing process used with metals, ceramics, plastics, and other materials.

Sintering - Wikipedia

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