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Test; BET Equivalent Spherical-particle Diameter; BET Specific Surface Area
Bimodal Powder PackingBimodal Powder Sintering; Binder Burnout-See Polymer Pyrolysis; Binder (Mixed Polymer) Viscosity; Bingham Model-See Viscosity Model for Injection-molding Feedstock; Bingham Viscous-flow Model; Boltzmann Statistics-See Arrhenius Relation; Bond Number; Bragg's Law; Brazilian Test; Breakage Model; Brinell Hardness; Brittle Material Strength Distribution-See Weibull Distribution; Broadening; Brownian Motion; Bubble Point-See Washburn Equation; Bulk Transport Sintering-See Sintering Shrinkage and Surface-area Reduction Kinetics;
C
Cantilever-beam Test-See Bending-beam ViscosityCapillarity; Capillarity-induced Sintering-See Surface Curvature-Driven Mass Flow in Sintering; Capillary Pressure during Liquid-phase Sintering-See Mean Capillary Pressure; Capillary Rise-See Washburn Equation; Capillary Stress-See Laplace Equation; Case Carburization; Casson Model; Cemented-carbide Hardness; Centrifugal Atomization Droplet Size; Centrifugal Atomization Particle Size; Charles Equation for Milling; Chemically Activated Sintering-See Activated Sintering, Early-stage Shrinkage; Closed-pore Pressure-See Spherical-pore Pressure
Closed Porosity-See Open-pore ContentCoagulation Time; Coalescence-See Coagulation Time; Coalescence-induced Melting of Nanoscale Particles; Coalescence of Liquid Droplets-See Liquid-droplet Coalescence Time; Coalescence of Nanoscale Particles-See Nanoparticle Agglomeration; Coble Creep; Coefficient of Thermal Expansion-See Thermal Expansion Coefficient; Coefficient of Variation; Coercivity of Cemented Carbides-See Magnetic Coercivity Correlation in Cemented Carbides; Cold-spray Process-See Spray Deposition; Colloidal Packing Particle-size Distribution-See Andreasen Size Distribution
Combined-stage Model of Sintering

Sommario/riassunto

The only handbook of mathematical relations with a focus on particulate materials processing The National Science Foundation estimates that over 35% of materials-related funding is now directed toward modeling. In part, this reflects the increased knowledge and the high cost of experimental work. However, currently there is no organized reference book to help the particulate materials community with sorting out various relations. This book fills that important need, providing readers with a quick-reference handbook for easy consultation. This one-of-a-kind handbook gives readers