

Abstracts

Microwave Sintering of Ceramics

M.E. Brodwin and D.L. Johnson. "Microwave Sintering of Ceramics." 1988 MTT-S International Microwave Symposium Digest 88.1 (1988 Vol. 1 [MWSYM]): 287-288.

An overview of microwave sintering is presented and the basic theory for the design of impedance applicators is derived. Examples of applicators for ribbon materials and rods are developed and sintering results are presented. The problems imposed by radiation loss and plasma breakdown are examined and their solution by use of thermally reflecting high pressure cavities are described. A basic system for sintering with feedback control of surface temperature is presented.

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