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Handbook on Dielectric and Thermal Properties of Microwaveable Materials (Artech House Microwave Library (Hardcover))

Vyacheslav V. Komarov, Saratov State Technical University

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The application of microwave energy for thermal processing of different materials and substances is a rapidly growing trend in modern science and engineering. In fact, optimal design work involving microwaves is impossible without solid knowledge of the properties of these materials. Here s a practical reference that collects essential data on the dielectric and thermal properties of microwaveable materials, saving you countless hours on projects in a wide range of areas, including microwave design and heating, applied electrodynamics, food science, and medical technology.

This unique book provides hard-to-find information on complex dielectric permittivity of media at industrial, scientific, and medical frequencies (430 MHz, 915MHz, 2.45GHz, 5.8 GHz, and 24.125GHz). Written by a leading expert in the field, this authoritative book does an exceptional job at presenting critical data on various materials and explaining what their key characteristics are concerning microwaves.

Contents: Preface. Mathematical Modeling of Microwave Heating Processes. Dielectric and Thermal Properties of Microwaveable Materials: Parameters, Measuring Techniques and Some Theoretical Aspects. Foodstuff and Agricultural Products. Biological Tissues. Fibrous Materials. Polymers, Resins, and Plastics. Ceramics. Soils and Minerals. Pure and Composite Chemical Substances. Index.

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