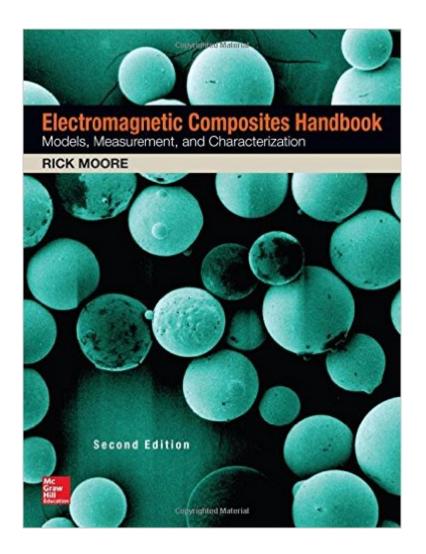
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Electromagnetic Composites Handbook, Second Edition





Synopsis

Electromagnetic Composites Data, Principles, and ApplicationsThis fully revised engineering and scientific handbook offers complete coverage of electromagnetic modeling and explains the characterization of composite materials from the theoretical, computational, and experimental points of view. The book extends the von Hippel text to include data on additional non-conducting dielectrics; semiconducting, conducting, and magnetic materials; and composites composed of two or more molecularly distinct compounds that range in size from nanometers to centimeters. Electromagnetic Composites Handbook: Models, Measurement, and Characterization, Second Edition, simplifies the development of multifunctional material designs and includes tabulated data for more than 300 materials. This updated edition covers: Wave Equations and Electromagnetic Constitutive ParametersSources and Dispersion for Polarization and PermittivitySources and Dispersion of Magnetization and PermeabilityFundamental Observables for Material MeasurementComposites and Effective Medium TheoriesConducting-Dielectric and Magneto-Dielectric CompositesNumerical Models of CompositesElectromagnetic Measurement Systems Summary for RF a " Millimeter WavelengthsResonant Techniques for Material CharacterizationTransmission Line, Free Space Focused Beam and TE10N Measurement DetailsMicron and Nano Scale CompositesÂ

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