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Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- Preface -- Chapter 1 Introduction -- 1.1 Outline on WaveTransparent Composites -- 1.2 Composition of Polymer Matrix WaveTransparent Composites -- 1.2.1 Polymer Matrix -- 1.2.2 Reinforced Fibers -- 1.3 Factors Influencing the WaveTransparent Performances of Polymer Matrix WaveTransparent Composites -- 1.4 Property Requirements for Polymer Matrix WaveTransparent Composites -- 1.4.1 Wave Transparent Performances -- 1.4.2 Mechanical Properties -- 1.4.3 Heat Resistant Properties -- 1.4.4 Environmental Resistance Properties -- References -- Chapter 2 WaveTransparent Mechanism, Test Methods for Dielectric Properties and WaveTransparent Models of WaveTransparent Materials -- 2.1 WaveTransparent Mechanism of WaveTransparent Materials -- 2.2 Dielectric Parameter Equations for WaveTransparent Materials -- 2.2.1 Clausius–Mossotti Equation -- 2.2.1.1 Electron Polarization -- 2.2.1.2 Atomic Polarization -- 2.2.1.3 Ion Polarization -- 2.2.1.4 Orientated Polarization --

2.2.1.5 Interfacial Polarization -- 2.2.2 Maxwell–Garnett Equation -- 2.2.3 Lichtenecker Equation -- 2.3 Test Methods for Dielectric Properties of WaveTransparent Materials -- 2.3.1 Resonance Method

Sommario/riassunto

This book provides a comprehensive exploration of polymer matrix composites, focusing on their materials, properties, and applications. It covers the basic concepts, dielectric properties, reinforced fibers, and the interfaces within these composites. The authors, including Prof. Junwei Gu and Prof. Yusheng Tang, detail the composition, structure, and physical and chemical properties of both the polymer matrix and reinforced fibers. Key topics include the testing methods for dielectric properties, the formation and modification of interfaces, and various molding technologies. The book also discusses the application of polymer matrix composites in industries such as aerospace and telecommunications, highlighting their performance in radar radomes and 5G communication services. Aimed at scholars, researchers, and technology developers, this work serves as a valuable resource for those involved in composite materials research and development.