

1.	Record Nr.	UNIPARTHENOPE000002064
	Titolo	Accounting research
	Pubbl/distr/stampa	London : Cambridge University Press, 1948-1958
	Descrizione fisica	fascicoli
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Periodico
	Note generali	Manca ISSN
2.	Record Nr.	UNINA9911020439803321
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	Titolo	Polymer Matrix Wave-Transparent Composites : Materials, Properties, and Applications
	Pubbl/distr/stampa	Newark : , : John Wiley & Sons, Incorporated, , 2024 ©2024
	ISBN	9783527839629 3527839623 9783527839605 3527839607
	Edizione	[1st ed.]
	Descrizione fisica	1 online resource (307 pages)
	Altri autori (Persone)	TangYusheng KongJie DangJing
	Disciplina	620.192042
	Soggetti	Polymeric composites Composite materials
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- Preface -- Chapter 1

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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.
