

1. Record Nr.	UNINA9910796894203321
Autore	Zhu Jiaqi
Titolo	Infrared antireflective and protective coatings / / Jiaqi Zhu, Jiecai Han
Pubbl/distr/stampa	Berlin ; ; Boston : , : Walter de Gruyter, GmbH, , [2018] ©2018
ISBN	3-11-048819-1 3-11-048951-1
Descrizione fisica	1 online resource (504 pages) : illustrations
Collana	Advanced composites, , 2192-8983
Disciplina	667/.9
Soggetti	Protective coatings Infrared technology Anti-reflective coatings Coatings Thin films
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Foreword I -- Foreword II -- Preface -- Contents -- 1. Foundation of infrared-transparent materials -- 2. Service environment of infrared antireflective and protective coatings -- 3. Optical design of infrared antireflective and protective coating system -- 4. Preparation methods of infrared antireflective and protective coatings -- 5. Amorphous diamond films -- 6. Germanium-carbide film -- 7. Boron phosphide thin films -- 8. Alumina thin films -- 9. Yttrium oxide thin films -- 10. Infrared transparent conductive oxide thin film -- Index
Sommario/riassunto	This book is a comprehensive introduction on infrared anti-transparent materials and their applications in anti-reflective and protective coatings. Optical, mechanical and thermal properties and preparations of various kinds of films, such as amorphous diamond films, germanium carbide films, boron phosphide films, alumina films and yttrium oxide film are discussed in detail making it suitable for material scientists and industrial engineers.