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Nota di contenuto	Cover; Tittle Page; Copyright Page; Contents; Preface; List of Contributors; 1 The History and Future Trends of Non-halogenated Flame Retarded Polymers; 1.1 Introduction; 1.1.1 Why Non-Halogenated Flame Retardants?; 1.2 Key Flame Retardancy Safety Requirements; 1.3 Geographical Trends; 1.4 Applications for Non-halogenated FRP's; References; 2 Phosphorus-based FRs; 2.1 Introduction; 2.2 Main Classes of Phosphorus-based FRs; 2.3 Polyolefins; 2.4 Polycarbonate and Its Blends; 2.5 Polyphenylene Ether Blends; 2.6 Polyesters and Polyamides 2.7 Thermoplastic Elastomers (TPE) and Thermoplastic Polyurethanes (TPU)2.8 Epoxy Resins; 2.9 Unsaturated Polyesters; 2.10 PU Foams; 2.11 Textiles; 2.12 Conclusions and Further Trends; References; 3 Mineral Filler Flame Retardants; 3.1 Introduction; 3.2 Industrial Importance of Mineral Flame Retardants; 3.2.1 Market Share of Mineral FRs; 3.2.2 Synthetic Mineral FRs Within the Industrial Chemical Process Chain; 3.2.3 Natural Mineral FRs; 3.3 Overview of Mineral Filler FRs; 3.3.1 Mineral Filler Flame Retardants by Chemistry; 3.3.2 Classification by Production Process

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Sommario/riassunto

Due to the emphasis on replacing halogenated flame retardants with alternate technologies, this handbook contains in one place all of the current commercial non-halogenated flame retardant technologies, as well as experimental systems near commercialization. This book focuses on non-halogenated flame retardants in a holistic but practical manner. It starts with an overview of the regulations and customer perceptions driving non-halogenated flame retardant selection over older halogenated technologies. It then moves into separate chapters covering the known major classes of non-halo
