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Nota di contenuto	Boronic Acids: Preparation and Applications in Organic Synthesis, Medicine and Materials; Foreword; Contents to Volume 1; Contents to Volume 2; Preface; List of Contributors; 1 Structure, Properties, and Preparation of Boronic Acid Derivatives: Overview of Their Reactions and Applications; 1.1 Introduction and Historical Background; 1.2 Structure and Properties of Boronic Acid Derivatives; 1.2.1 General Types and Nomenclature of Boronic Acid Derivatives; 1.2.2 Boronic Acids; 1.2.2.1 Structure and Bonding; 1.2.2.2 Physical Properties and Handling; 1.2.2.3 Safety Considerations 1.2.2.4 Acidic Character1.2.2.5 Chemical Stability; 1.2.3 Boronic Acid Derivatives; 1.2.3.1 Boroxines (Cyclic Anhydrides); 1.2.3.2 Boronic Esters; 1.2.3.3 Acyloxy- and Diacyloxyboronates; 1.2.3.4

Dialkoxyboranes and Other Heterocyclic Boranes; 1.2.3.5 Diboronyl Esters; 1.2.3.6 Azaborolidines and Other Boron-Nitrogen Heterocycles; 1.2.3.7 Dihaloboranes and Dihydroalkylboranes; 1.2.3.8 Trifluoro- and Trihydroxyborate Salts; 1.3 Preparation of Boronic Acids and Their Esters; 1.3.1 Arylboronic Acids; 1.3.1.1 Electrophilic Trapping of Arylmetal Intermediates with Borates
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Sommario/riassunto

Following the huge success of the first edition, which has become THE reference source for everyone working in the field, this long-awaited, completely updated edition features almost 50% new content. The world-renowned chemist Prof Dennis Hall is joined by a select group of top authors to cover all modern aspects of boronic acid derivatives in one comprehensive handbook. The experimental procedures described make for extremely useful reading. From the reviews of the first edition: "...deserves to be on the bookshelf of all synthetic chemists, whether in discovery or process chemistry."
