

1. Record Nr.	UNINA9910480220803321
Autore	Greenwood N. N (Norman Neill)
Titolo	Chemistry of the elements [[electronic resource] /] / N.N. Greenwood and A. Earnshaw
Pubbl/distr/stampa	Oxford ; ; Boston, : Butterworth-Heinemann, c1997
ISBN	0-08-050109-5 9780080501093
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (1365 p.)
Altri autori (Persone)	EarnshawA (Alan)
Disciplina	540
Soggetti	Chemical elements Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Reprinted with corrections 1998. Reprinted 2001, 2002, 2003 (twice), 2005.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Chemistry of the Elements; Copyright page; Table of Contents; Preface to the second edition; Preface to the first edition; Chapter 1. Origin of the Elements. Isotopes and Atomic Weights; 1.1 Introduction; 1.2 Origin of the Universe; 1.3 Abundances of the Elements in the Universe; 1.4 Stellar Evolution and the Spectral Classes of Stars; 1.5 Synthesis of the Elements; 1.6 Atomic Weights; Chapter 2. Chemical Periodicity and the Periodic Table; 2.1 Introduction; 2.2 The Electronic Structure of Atoms; 2.3 Periodic Trends in Properties; 2.4 Prediction of New Elements and Compounds Chapter 3. Hydrogen3.1 Introduction; 3.2 Atomic and Physical Properties of Hydrogen; 3.3 Preparation, Production and Uses; 3.4 Chemical Properties and Trends; 3.5 Protonic Acids and Bases; 3.6 The Hydrogen Bond; 3.7 Hydrides of the Elements; Chapter 4. Lithium, Sodium, Potassium, Rubidium, Caesium and Francium; 4.1 Introduction; 4.2 The Elements; 4.3 Compounds; Chapter 5. Beryllium, Magnesium, Calcium, Strontium, Barium and Radium; 5.1 Introduction; 5.2 The Elements; 5.3 Compounds; Chapter 6. Boron; 6.1 Introduction; 6.2 Boron; 6.3 Borides; 6.4 Boranes (Boron Hydrides); 6.5 Carboranes 6.6 Metallocarboranes6.7 Boron Halides; 6.9 Boron-Nitrogen Compounds; 6.10 Other Compounds of Boron; Chapter 7. Aluminium, Gallium, Indium and Thallium; 7.1 Introduction; 7.2 The Elements; 7.3

Compounds; Chapter 8. Carbon; 8.1 Introduction; 8.2 Carbon; 8.3 Graphite Intercalation Compounds; 8.4 Carbides; 8.5 Hydrides, Halides and Oxohalides; 8.6 Oxides and Carbonates; 8.7 Chalcogenides and Related Compounds; 8.8 Cyanides and Other Carbon-Nitrogen Compounds; 8.9 Organometallic Compounds; Chapter 9. Silicon; 9.1 Introduction; 9.2 Silicon; 9.3 Compounds; Chapter 10. Germanium, Tin and Lead
10.1 Introduction; 10.2 The Elements; 10.3 Compounds; Chapter 11. Nitrogen; 11.1 Introduction; 11.2 The Element; 11.3 Compounds; Chapter 12. Phosphorus; 12.1 Introduction; 12.2 The Element; 12.3 Compounds; Chapter 13. Arsenic, Antimony and Bismuth; 13.1 Introduction; 13.2 The Elements; 13.3 Compounds of Arsenic, Antimony and Bismuth; Chapter 14. Oxygen; 14.1 The Element; 14.2 Compounds of Oxygen; Chapter 15. Sulfur; 15.1 The Element; 15.2 Compounds of Sulfur; Chapter 16. Selenium, Tellurium and Polonium; 16.1 The Elements; 16.2 Compounds of Selenium, Tellurium and Polonium
Chapter 17. The Halogens: Fluorine, Chlorine, Bromine, Iodine and Astatine; 17.1 The Elements; 17.2 Compounds of Fluorine, Chlorine, Bromine and Iodine; 17.3 The Chemistry of Astatine; Chapter 18. The Noble Gases: Helium, Neon, Argon, Krypton, Xenon and Radon; 18.1 Introduction; 18.2 The Elements; 18.3 Chemistry of the Noble Gases; Chapter 19. Coordination and Organometallic Compounds; 19.1 Introduction; 19.2 Types of Ligand; 19.3 Stability of Coordination Compounds; 19.4 The Various Coordination Numbers; 19.5 Isomerism; 19.6 The Coordinate Bond; 19.7 Organometallic Compounds
Chapter 20. Scandium, Yttrium, Lanthanum and Actinium

Sommario/riassunto

When this innovative textbook first appeared in 1984 it rapidly became a great success throughout the world and has already been translated into several European and Asian languages. Now the authors have completely revised and updated the text, including more than 2000 new literature references to work published since the first edition. No page has been left unaltered but the novel features which proved so attractive have been retained. The book presents a balanced, coherent and comprehensive account of the chemistry of the elements for both undergraduate and postgraduate students. This crucial
