

1. Record Nr.	UNINA9910778643103321
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Titolo	Chemistry of non-stoichiometric compounds / / Koji Kosuge
Pubbl/distr/stampa	Oxford ; ; New York : , : Oxford University Press, , 1993 ©1985
ISBN	0-19-191668-4 0-19-166113-9 1-280-90365-1 9786610903658 0-585-22145-6
Descrizione fisica	1 online resource (x, 262p.)
Collana	Oxford science publications
Disciplina	548/.8
Soggetti	Crystals - Defects Inorganic compounds
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previously issued in print: 1993.
Nota di bibliografia	Includes bibliographical references and indexes.
Sommario/riassunto	As inorganic materials are put to more and more practical uses - mainly in electric, magnetic, and optical devices - materials scientists must have an increasingly sophisticated understanding of the chemical and physical properties of inorganic compounds. This volume - the first of its kind in 20 years - provides a unified presentation of the chemistry of non-stoichiometric compounds based on statistical thermodynamics and structural inorganic chemistry. Four modern examples of non-stoichiometric compounds - ionic conducting compounds, hydrogen absorbing alloys, magnetic materials, and electrical materials - are discussed in detail. Students and researchers in structural inorganic chemistry, crystallography, materials science, and solid state physics will find this much-needed text both practical and informative.