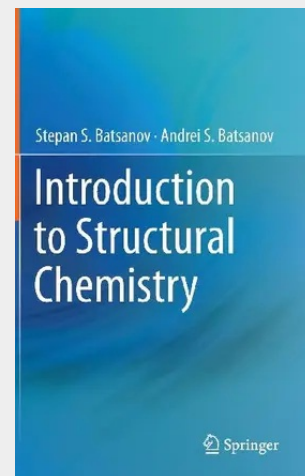


Introduction to Structural Chemistry

A concise description of models and quantitative parameters in structural chemistry and their interrelations, with 280 tables and >3000 references giving the most up-to-date experimental data on energy characteristics of atoms, molecules and crystals (ionisation potentials, electron affinities, bond energies, heats of phase transitions, band and lattice energies), optical properties (refractive index, polarisability), spectroscopic characteristics and geometrical parameters (bond distances and angles, coordination numbers) of substances in gaseous, liquid and solid states, in glasses and melts, for various thermodynamic conditions. Systems of metallic, covalent, ionic and van der Waals radii, effective atomic charges and other empirical and semi-empirical models are critically revised. Special attention is given to new and growing areas: structural studies of solids under high pressures and van der Waals molecules in gases. The book is addressed to researchers, academics, postgraduates and advanced-course students in crystallography, materials science, physical chemistry of solids.

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213,99 €

199,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9789400747708

Medium: Buch

ISBN: 978-94-007-4770-8

Verlag: Springer

Erscheinungstermin: 29.11.2012

Sprache(n): Englisch

Auflage: 1. Auflage 2012

Produktform: Gebunden

Gewicht: 1065 g

Seiten: 542

Format (B x H): 160 x 241 mm

