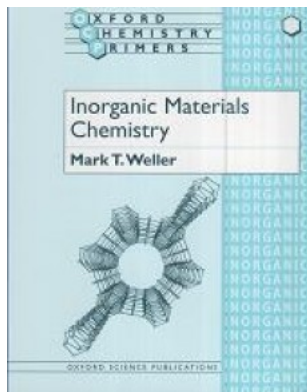


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Although the chemistry of solid inorganic materials has become increasingly central to chemistry research, the subject has long been inadequately covered. This inexpensive and well-illustrated primer fills the gap with a comprehensive introduction to the subject. Topics include: transition metal oxides, non-stoichiometry, zeolites, layer compounds chemistry, high temperature superconductors, and fullerides. Syntheses of these compound types are presented as well. The book also details powder X-ray diffraction, the major experimental technique used to study and characterize the chemistry of solid inorganic materials. The basis for the method and associated, relevant crystallography is discussed. The experimental data gleaned from the technique is used to illustrate key topics throughout the primer. This tying together of an experimental method and the chemistry is a much needed approach, reflecting the true need of the chemist and the method by which chemistry is taught.