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Author Information. JAMES S. REED is Professor of Ceramic Engineering at the New York State College of Ceramics at Alfred University. Reed has been the recipient of many awards for research and teaching including, most recently, the Outstanding Educator in Ceramic Engineering Award of the American Ceramic Society.

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Structure of Ceramics 1 Assumed Knowledge 2 1.1 Close-Packed Lattices 3 FCC and HCP Lattices 3 Location and Density of Interstitial Sites 7 Sites Between Two Close-Packed Layers 7 Three-Dimensional Arrangements of Interstitial Sites 8 1.2 Stability of Ionic Crystals 9 The Madelung Constant 9 Pauling's Rules 13 1.3 Ceramic Crystal Structures 19

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