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180 Fundamentals of Ceramics structure, and its physical significance will become clearer later on. Here we only remark that for cubic lattices, where only nearest-neighbor jumps are allowed and diffusion is by a vacancy mechanism, $a = 1/\xi$, where ξ is the coordination number of the vacancy.

Barsoum M., Fundamentals of Ceramics, 2003 - Стр 20

Starting materials, ceramic processing fundamentals, and processing technology taught in context of the main classes of ceramic materials (polycrystalline monolithic ceramics, glasses, and films/coatings) and the determination of structure, properties and performance. Ternary phase equilibria in ceramic systems.

MATS3002 Fundamentals of Ceramic Processing

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Updated and improved, this revised edition of Michel Barsoum's classic text Fundamentals of Ceramics presents readers with an exceptionally clear and comprehensive introduction to ceramic science. Barsoum offers introductory coverage of ceramics, their structures, and properties, with a distinct emphasis on solid state physics and chemistry.

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Barsoum M., Fundamentals of Ceramics, 2003. The structure of Si_3N_4 is based on the SiN_4 tetrahedron. Propose a way by which these tetrahedra can be joined together in three dimensions to form a solid, maintaining the 3:4 ratio of Si to N, other than the one shown in Fig. 3.11. (b) Repeat part (a) for SiC .

Barsoum M., Fundamentals of Ceramics, 2003 - Ctp 11

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Barsoum's text, "Fundamentals of Ceramics", is the best theoretical treatment of materials science that I am familiar with. He provides in-depth coverage of many mat-sci principles and derivations, from the elementary to the advanced.

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