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Essentials of Modern Materials Science and Engineering Chapter 2. Atomic structure: Second level describing how atoms are

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Third level describing sequence of crystal at a level invisible to the human eye.

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Processing can alter that structure in specific and predictable ways; The behavior of materials is grounded in science and is understandable; The properties of all materials change over time with use and exposure to environmental conditions; When selecting a material, sufficient and appropriate testing must be performed to insure that the material will remain suitable throughout the reasonable life of the product.

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His primary interest is teaching, which has resulted in a variety of campus, university, and industry awards and the development of THE SCIENCE AND ENGINEERING OF MATERIALS textbook. Dr. Askeland is also active in research involving metals casting and metals joining, particularly in the production, treatment, and joining of cast irons, gating and fluidity of aluminum alloys, and optimization of casting processes.

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