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Applied Mechanics of Solids Allan F. Bower This electronic text summarizes the physical laws, mathematical methods, and computer algorithms that are used to predict the response of materials and structures to mechanical or thermal loading.

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This note provides an introduction to the mechanics of solids with applications to science and engineering. It emphasizes the three essential features of all mechanics analyses, namely: (a) the geometry of the motion and/or deformation of the structure, and conditions of geometric fit, (b) the forces on and within structures and assemblages; and (c) the physical aspects of the structural system ...

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