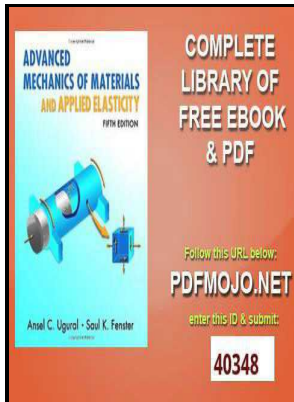


# Advanced mechanics of materials

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Another manner in which a structural member may fail is by elastic or plastic instability. In most structures or machines, the primary function of a member is to support or transfer external forces loads that act on it, without failing.

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The state of stress in the neighborhood of such geometrical irregularities is usually three dimensional in form, thus increasing the difficulty of obtaining complete analytical solutions.

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