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v Preface This fifth edition of Schaum's Strength of Materials book has been substantially modified by the second author to better fit the outline of the introductory Strength of Materials (Solid Mechanics) course, and to better fit the presentation of material in most introductory textbooks on the subject.

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reaches the yield strength σ_y of the material of the beam, small zones of plasticity appear at the surface (top diagram, facing page). The beam is no longer elastic, and, in this sense, has failed.

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