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stress assume that f and m derive from two types of forces namely body forces f such as gravitational attractions defined such that force fdv acts on volume element dv see figure 1 and surface forces which represent the mechanical effect of matter immediately adjoining that along the surface s of the volume v being considered

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a textbook on the basic structures of the mechanics of deformable bodies with a focus on the elastic behavior of simple materials and structures composed by elastic beams the book covers topics such as bodies deformations forces torques constitutive structures linear elasticity yield criteria and bifurcation phenomena with exercises and a brief appendix on tensor algebra and calculus

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