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11.1 BASIC RELATIONS 391 We use cylindrical coordinates r , θ , z for radial, circumferential, and axial directions. Let the cylinder be loaded as shown in Figure 11.1.

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Advanced Mechanics of Materials by Dr. Sittichai Seangatith 1-5 Fig. 1.7 1.3 Symmetry of the Stress Array and Stress on an Arbitrarily Oriented Plane If the stress around the chosen point on the body is constant, some of the stress components can be reduced by using the force and moment equilibrium for the element.

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