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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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1.3 Mechanics of a single body $\int_C \mathbf{F} \cdot d\mathbf{r} = \int_a^b \mathbf{F}(\mathbf{r}(t)) \cdot \mathbf{r}'(t) dt$. Figure 1.3: Line integrals of a vector field \mathbf{F} , which is a generalization of the statement $\int_a^b f(x) dx = F(b) - F(a)$ from ordinary calculus.

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four concepts in mechanics and in section 1.2 we look at the equations in mechanics. These sections also serve as a motivation for the mathematical tools that we would be developing in chapter 2. Then, in section 1.3 we look into various idealizations of the response of materials and the mathematical framework used to study them.

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About the Author: . ARTHUR P. BORESI is Professor Emeritus in the Department of Civil and Architectural Engineering at the University of Wyoming in Laramie. He is the coauthor of a number of books, including Statics and Dynamics, Approximate Solution Methods in Engineering Mechanics, and Advanced Mechanics of Materials.

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