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11.1 BASIC RELATIONS 391 We use cylindrical coordinates  $r$ ,  $\theta$ ,  $z$  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  $\mathbf{A}$ , which is a generalization of the statement  $\int_a^b f(x) dx = F(b) - F(a)$  from ordinary calculus.

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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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