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About Author: Richard G. Budynas is Professor Emeritus of the Kate Gleason College of Engineering at Rochester Institute of Technology. He has over 40 years' experience in teaching and practicing mechanical engineering design. He is the author of a McGraw-Hill textbook, Advanced Strength and Applied Stress Analysis, Second Edition; and co-author of a McGraw-Hill reference book, Roark's ...

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$$\int_{r_1}^{r_2} r^n dr = \left[\frac{r^{n+1}}{n+1} \right]_{r_1}^{r_2} = \frac{r_2^{n+1} - r_1^{n+1}}{n+1}$$
$$\int_{r_1}^{r_2} \frac{1}{r^3} dr = \left[-\frac{1}{2r^2} \right]_{r_1}^{r_2} = \frac{1}{2} \left(\frac{1}{r_1^2} - \frac{1}{r_2^2} \right)$$

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Table A-10, 8.1% corresponds to $z_1 =$
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