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Tabular results for means and standard deviations for simple algebraic operations can be found in R. G. Budynas and J. K. Nisbett,

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Shigley's Mechanical Engineering Design, 9th ed., McGraw-Hill, New York, 2011, Table 20-6, p. 993. Figure 1-7. Plots of density functions showing how the interference of  $S$  and  $s$  is used to explain the stress margin  $m$ .

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He began Machine Design as sole author in 1956, and it evolved into Mechanical Engineering Design, setting the model for such textbooks. He contributed to the first five editions of this text, along with coauthors Larry Mitchell and Charles Mischke.

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The projects are intended to be open-ended and will involve the design of mechanical components to reinforce the design process. The Required Course Textbook. Shigley ' s Mechanical Engineering Design, Eleventh Edition, R.G. Budynas and J.K. Nisbett. McGraw-Hill Education, New York, 2020. [ISBN: 978-1-264-08776-1].

Shigley's Mechanical Engineering Design is intended for students

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Overview The eighth edition  
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Engineering Design maintains the basic approach that has made this book the standard in machine design for over 40 years. It combines the straightforward focus on fundamentals instructors have come to expect, with a modern emphasis on design and new applications. Key additions to the eighth edition include a major new case study developed to help illuminate the complexities of designing a power transmission and a new chapter on Finite Elements. In addition, the text is complemented by a wealth of learning resources such as FE Exam problems, machine design tutorials, MATLAB simulations, and PPTs of important figures. These assets are presented through McGraw-Hill's ARIS (Assessment, Review, and Instruction System).

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transformations; additional topics from the theory of elasticity; examples and problems which test the mastery of the prerequisite elementary topics; clarified and additional topics from advanced mechanics of materials; new sections on fracture mechanics and structural stability; a completely rewritten chapter on the finite element method; a new chapter on finite element modeling techniques employed in practice when using commercial FEM software; and a significant increase in the number of end of chapter exercise problems some of which are oriented towards computer applications.

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