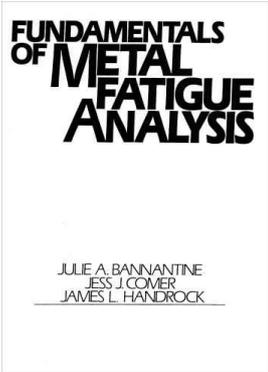


Fundamentals of Metal Fatigue Analysis



Fundamentals of Metal Fatigue Analysis
DY-56688

US/Data/Engineering-Transportation
5/5 From 304 Reviews

Julie A. Bannantine

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0 of 0 people found the following review helpful. Five StarsBy RIt came as expected.0 of 0 people found the following review helpful. Five StarsBy Jorge BastidasAwesome book7 of 7 people found the following review helpful. Good Starter BookBy Zoological EngineerI am a Principal Senior Test Durability Engineer in the Automotive business. I have MSEE MSME degrees. We are basically making Autoparts out of metal. So metal fatigue, developing S/N curves, material properties, etc are extremely important. I have a number of engineers working for me who have come to our firm within a few years of leaving school. I assign this book as a beginning course to them, for the first two to three weeks or so that they are working in my department. This is a get up to speed, learn the vocabulary and basic concepts and equations task. As the other reviewer noter, there ARE difficulties with the problems in the text, but it is a good basic start and nothing fundamentally unsound is presented. Along with this beginning material I also assign the SAE book by Wright, "Testing Automotive Materials and Components." It is an easy two day read. It is mostly a descriptive book, while Banantine, Comer has much more quantitative material. Which I expect my department to be comfortable with.Remember, Bannantine and Comer developed this book as notes for an upper level Undergrad Course while they were grad students at Univ. of Illinois.For a much more rigourous treatment, I recommend Dowling's book, but that really is a graduate text, and can't be completed by an engineer in a couple of weeks working full time.Your engineers should also be familiar with the material in the standard sophomore year Statics and Mechanics of Materials courses. Beer Johnson's books are my choice, but McGill and King is also a good choice. Another choice for this material are the Schaum's Outlines. But Schaums doesn't derive or develop the equations. Schaums does not publish a metal fatigue book.The other reviewer's criticism on a lack of statistical material is valid. But most undergraduate stat courses in engineer are more oriented towards production (XBar charts, etc.) or Digital Signal Processing material (for EE's). Graduate stat courses are more oriented towards design of experiments and research. Banantine Comer could use a Chapter on Weibull and on Reliability and

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