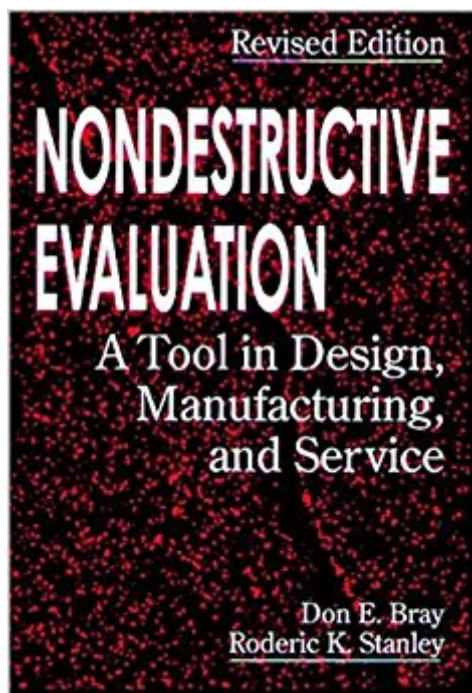


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# Nondestructive Evaluation: A Tool In Design, Manufacturing And Service



## Synopsis

Nondestructive evaluation (NDE) inspection schemes are important in design, manufacturing, and maintenance. By correctly applying techniques of NDE, we can reduce machine and system failures and increase reliability of operating systems over an extended lifetime. *Nondestructive Evaluation: A Tool in Design, Manufacturing, and Service* introduces and discusses primary techniques used in the field, including ultrasonics, acoustic emission, magnetics, radiography, penetrants, and eddy currents. Examples of each of these techniques are included, demonstrating typical applications.

## Book Information

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## Customer Reviews

Very informative on NDE and NDT methods, but a new edition should be released, there are many occurrences on where they repeat a sentence or even an entire paragraph word for word. I will say if you want to learn about NDE and NDT get this book, I purchased it for \$40 and is well worth it, I would probably have purchased the book even if I was not taking a NDE class. Additionally, the book is easy reading besides the annoying mistakes mentioned.

The work's field is nondestructive evaluation (NDE). NDE contains the instruments which engineers use to detect flaws in structures which function under mechanical stress. The work starts off well enough. However, in Chapter 2 it ventures into one's motivation for using NDE. Here, the work founders. Why would one use NDE? Because, the authors suggest, a sufficiently small false negative error probability reduces the inspected structure's probability of collapse. However, to state

the issue this way is to ignore one-half of the requirements of the user of any diagnostic instrument. The full requirement is for sufficiently small false positive and false negative error probabilities. However, the reader who searches the literature of NDE for knowledge of the two probabilities will search in vain. This can be said with confidence, for a recent paper demonstrates that NDE violates an axiom of probability theory in relationship to the two probabilities (see "Erratic Measure" (in NDE in the Energy Industry 1995, pp. 1-6. The American Society of Mechanical Engineers, New York, NY).

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