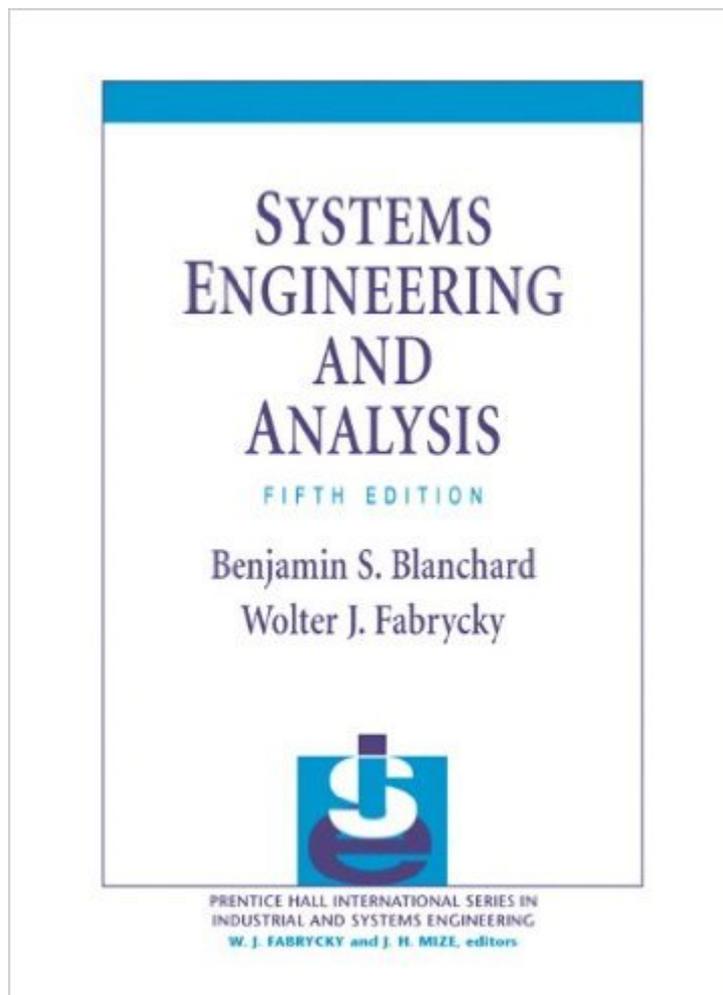


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# Systems Engineering And Analysis (5th Edition) (Prentice Hall International Series In Industrial & Systems Engineering)



## Synopsis

For senior-level undergraduate and first and second year graduate systems engineering and related courses. Systems Engineering and Analysis, 5/e, provides a total life-cycle approach to systems and their analysis. This practical introduction to systems engineering and analysis provides the concepts, methodologies, models, and tools needed to understand and implement a total life-cycle approach to systems and their analysis. The authors focus first on the process of bringing systems into being—beginning with the identification of a need and extending that need through requirements determination, functional analysis and allocation, design synthesis, evaluation, and validation, operation and support, phase-out, and disposal. Next, the authors discuss the improvement of systems currently in being, showing that by employing the iterative process of analysis, evaluation, feedback, and modification, most systems in existence can be improved in their affordability, effectiveness, and stakeholder satisfaction.

## Book Information

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we used this book for undergrad se classes i taught.unfortunately there are not a lot of alternatives.(we \*also\* used buede for another class and mandel for project management etc).the authors know their stuff, unfortunately some of it got lost in translation. perhaps because a lot of the material got translated from govt publications.this is more like a handbook than a textbook. for the handbook user just get sage's tome. for a textbook -- well this is least worst for an intro to SE. for

supporting areas other books are better. what is good is excellent. but what is bad is frustrating. they tried to cover way too much in one book and got confused with SE and OR and management techniques and quality and a whole bunch of other stuff that is really tangential to SE. and the material gets covered at uneven levels of detail so it is not a good handbook nor a good textbook just a good pile of notes on a lot of se related stuff. previous editions had many errors and did not come with any answers to the problems, many of which were confusing as stated. the first part of the book really introduces SE. The rest of the book is for review by someone who has specialised in the areas they cover. The book would be much better if they concentrated on SE and left the other stuff to other books. i have not checked with the publisher for current availability, but previously there was no instructors guide and no answers to the questions. that is a big drawback for classroom use. this would be best for an experienced person who wanted to review SE or get an introduction to a specialised topic relating to SE. the dsmc/dau se handbook is (was?)

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