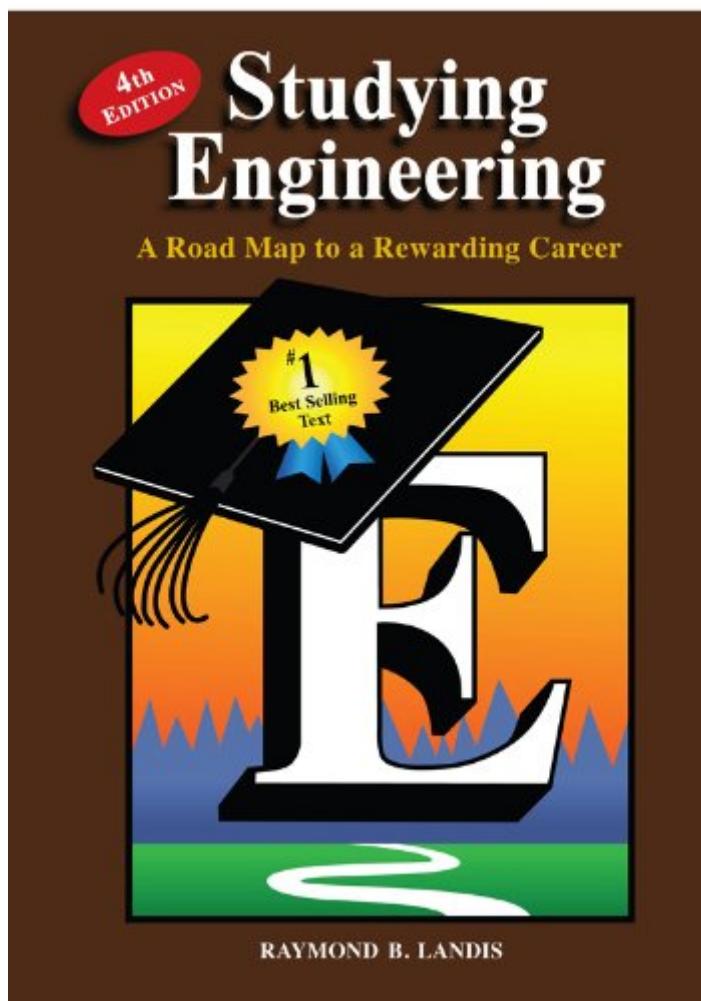


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# Studying Engineering: A Road Map To A Rewarding Career (Fourth Edition)



## Synopsis

Since "Studying Engineering: A Road Map to a Rewarding Career" exploded onto the market in 1995, it has become the best selling Introduction to Engineering textbook of all time. Adopted by over 300 U.S. institutions, and reaching more than 150,000 students, the book has made major inroads into the "sink or swim" paradigm of engineering education. Armed with the book as a powerful tool for "student development," large numbers of engineering programs have implemented Introduction to Engineering courses to improve the academic performance and retention rates of their students. Now, this pioneering text has been updated and expanded to bring students even more clarity in the process of achieving success in engineering study. Significant new material has been added to the Fourth Edition including:

- A Prologue to provide students with a perspective on what this book has to offer and how to get it.
- New sections on topics including fixed vs. growth mindset, reverse engineering, sustainability, life-long learning, study abroad, entrepreneurship, teamwork and leadership, engineering ethics, and inspirational and motivational quotations
- Incorporation of the University of Maryland human-powered helicopter project to illustrate the engineering design process in action
- The adoption of the National Academy of Engineering's Grand Challenges for Engineering to provide an indication of future directions for engineering
- Substantially more graphics to make the text more accessible and readable

"Studying Engineering" is written for students both those who are already engineering majors and those who are considering engineering as their field of study. The purpose of this innovative and exciting book is to enhance student success. Through its eight chapters it teaches students about:

1. The keys to success in engineering study
2. The rewards and opportunities of an engineering career
3. An understanding of the field of engineering—past, present, and future
4. Insight into the learning process
5. Academic success strategies needed to excel in mathematics, science, and engineering courses
6. The process of personal development needed to ensure that their behaviors and attitudes support their goal of becoming an engineer
7. Ways to enhance the quality of their education through participation in student organizations, pre-professional employment, engineering projects, study abroad, and service the institution and/or community
8. The engineering education system and how to take full advantage of that system.

Students can read the book on their own or use it in conjunction with an Introduction to Engineering course having a "student development/student success" focus. Reflections are interspersed throughout each chapter so that students can read a section and then stop to engage in a guided reflection about what they just read. Completion of many of 203 end-of-the-chapter problems provides opportunity for significant learning experience. A design project to "Design Your

Process of Becoming a World-Class First-Year Engineering Student provides a vehicle for students to become actively involved in their growth and development as an math/science/engineering student.

## **Book Information**

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## **Customer Reviews**

The price was what I was looking for but I wish I read the reviews first about the kindle edition. I had homework assignments and there was a miss-print within the kindle edition. When I could have gotten an A.. instead I got a B. Teacher is letting me re-due it after I showed her screenshots, but it wasn't worth the hassle. Who knows how many more miss-prints there are. It was convenient while it lasted though.

Really just a pain in the rear with mostly common sense .

Helpful

GREAT !

I bought this book because it was recommended for a class. It has a lot of helpful information for future engineers, but it can be boring to read. The information from this did help me improve my grades after I finally got around to finishing it.

A great breakdown for those interested in anything engineering! I definitely recommend for those in high school who are considering studying engineering.

Even though I did not enjoy my Introduction to Engineering course, I loved that we had to buy this book! It had a LOT of useful information concerning your first year as an undergrad in engineering. Excellent tips on building up that engineering resume in order to successfully get a job after graduation.

I am a first year engineering student and this book has been amazingly helpful with getting me through my first year.

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