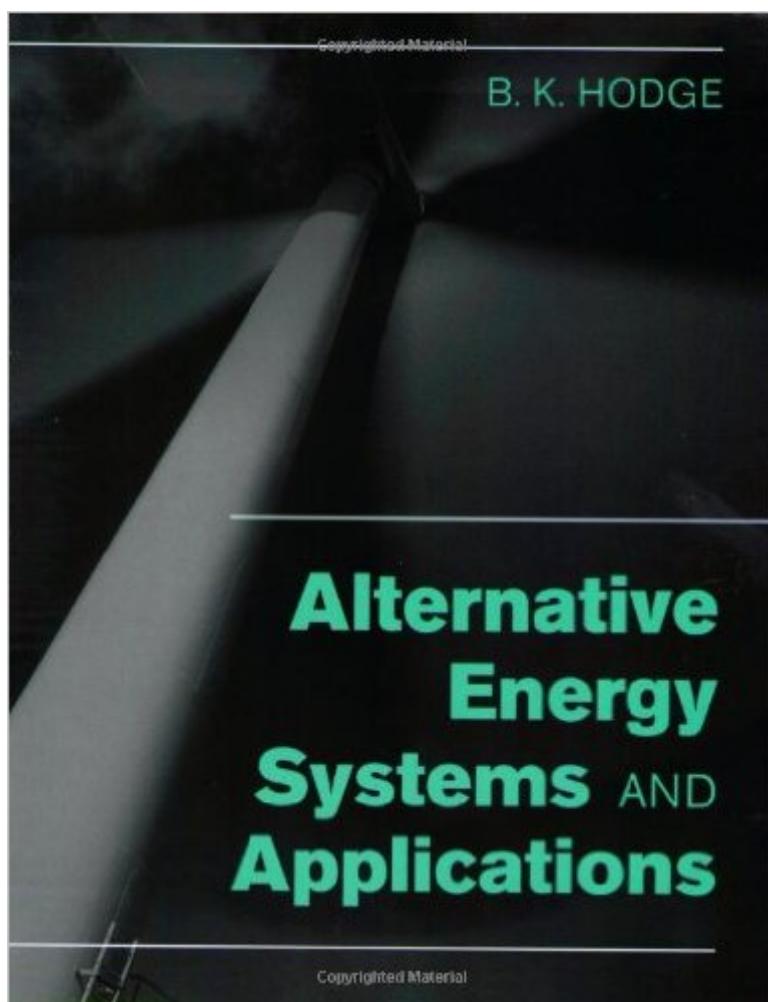


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# Alternative Energy Systems And Applications



## **Synopsis**

The solution to our current energy dilemma will contain features of both alternate energy sources and alternate use of existing energy sources. In order to help engineers find this solution, Alternative Energy Systems covers a wide range of concepts. They will examine areas involving real turbomachine and solar energy, CHP applications, and additional alternate energy concepts. All chapters focus on first-order engineering calculations. Alternate energy topics are also equated to topics related to renewable energy resources. Engineers will learn how to apply these concepts to find new solutions.

## **Book Information**

Paperback: 432 pages

Publisher: Wiley (April 13, 2009)

Language: English

ISBN-10: 0470142502

ISBN-13: 978-0470142509

Product Dimensions: 7.5 x 0.6 x 9.1 inches

Shipping Weight: 1.5 pounds

Average Customer Review: 4.0 out of 5 stars [See all reviews](#) (10 customer reviews)

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## **Customer Reviews**

This text covers a broad range of renewable energy technologies. It does require, however, prerequisite knowledge of fluid mechanics. This disclaimer is made clear at the very beginning of the text, so if you do not have such foundational knowledge in fluid mechanics, it will be very difficult to understand and appreciate the application of this knowledge to the technologies that are discussed in this book. In my opinion, one consistent problem in this text that I found difficult to deal with is that the variables that are captured as part of a formula are not clearly defined immediately after the presentation of the formula to the reader. In general, the variables in these formulas are not defined until several pages after the formula is introduced. For example, once equations (7-3) and (7-4) are introduced to the reader in Chapter 7, the variables  $cp$  and  $Tave$  are not defined immediately after these two formulas are introduced to the reader for the first time in this Chapter. In

addition, the figure that I believe is intended to highlight these two formulas does not disclose the meaning of these two variables. It is not until two pages later that the meaning the variable *Tave* is clearly defined. However, the variable *cp* still remains to be defined. In my opinion, this book would be much easier to read if the variables that are introduced in a formula for the first time are clearly defined immediately or very shortly after the formula is introduced to the reader. Another issue that I found with the text is that the exercise problems at the end of some chapters, like Chapter 2, for example, are missing critical information in order to solve the problems, such as the numerical values of the angles in Problem 3 at the end of Chapter 2.

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