

## A Student S Guide To Dimensional Analysis Student S Guides By Don S Lemons

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"Pressestimmen "This short book provides an introduction to dimensional analysis, covering its history, methods and formalisation, and shows its application to a number of physics and engineering problems. ? Aimed primarily at physics and engineering students in their first university courses, it can also be useful to experienced students and professionals. Being concise and providing problems with solutions at the end of each chapter, the book is ideal for self study.' Virginia Greco, CERN Courier'Dimensional, or unit, analysis is a useful tool for finding relations between variables that describe a physical system. Although it has applications across all fields of physics, it is not a regular part of a typical undergraduate physics curriculum. ? Don Lemons addresses that gap. ? His latest book is written in a casual style, as if he were talking to his students and giving them step-by-step guidance. Lemons shares his personal experience applying dimensional analysis to problems. For instance, he discusses the hydraulic jump, a phenomenon one can see in a kitchen sink. ? Such anecdotes make dimensional analysis more accessible and less intimidating. ? Lemons's book is a well-written entry-level text that will be of value to curious undergraduates in physics and engineering.' Hong Lin, Physics Today"The approach taken to the subject is example based: each chapter contains several examples which are dealt with in detail and end with exercise problems. Many of the exercise problems are interesting and are sure to pique the interest of the reader ? A good handle on dimensional analysis is probably the most important skill that a modeller should have and this book is an ideal introductory text on the topic. The manner in which the book is written and the material is presented makes it ideal for students who wish to study the material on their own; it is also very useful for instructors involved in teaching courses on modelling. The production quality of the book is very high. The book will be very useful for students, early stage researchers and instructors in physics, mathematics and engineering and I have no hesitations in recommending it.' M. P. Gururajan, Contemporary Physics'A short introduction that can stimulate students' interest, broaden their analytical toolbox, and enhance their understanding of the subject.' Misha Prepelitsa, SIAM Review Über das Produkt This introduction to dimensional analysis covers the methods, history and formalisation of the field. Utilising topics including mechanics, hydro- and electrodynamics, and thermal and quantum physics, it illustrates the possibilities and limitations of dimensional analysis, making it

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Introducing basic physics and fluid engineering topics through the mathematical methods of dimensional analysis this book is perfect for students in physics engineering and mathematics explaining potentially unfamiliar concepts such as viscosity and diffusivity the text includes worked examples and end of chapter problems with answers provided in an accompanying appendix which help make it ideal for self study.

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