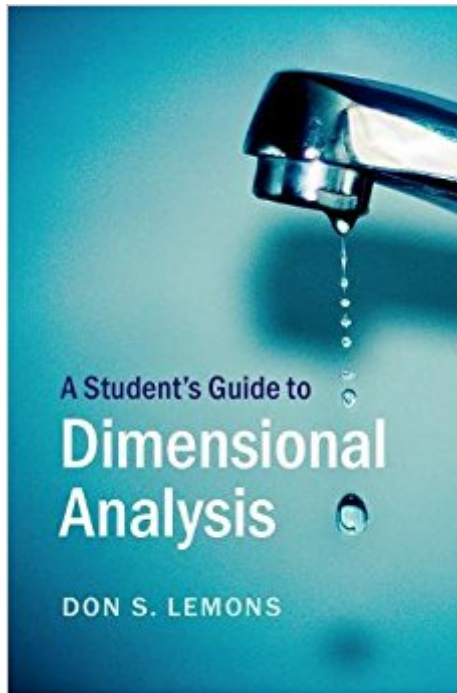




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A Student's Guide To Dimensional Analysis



Synopsis

This introduction to dimensional analysis covers the methods, history and formalisation of the field, and provides physics and engineering applications. Covering topics from mechanics, hydro- and electrodynamics to thermal and quantum physics, it illustrates the possibilities and limitations of dimensional analysis. 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. Long-standing methodological problems arising in popular presentations of dimensional analysis are also identified and solved, making the book a useful text for advanced students and professionals.

Book Information

Paperback: 112 pages

Publisher: Cambridge University Press; Student edition (May 22, 2017)

Language: English

ISBN-10: 131661381X

ISBN-13: 978-1316613818

Product Dimensions: 6 x 0.3 x 9 inches

Shipping Weight: 9.1 ounces (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #254,119 in Books (See Top 100 in Books) #29 in Books > Engineering & Transportation > Engineering > Reference > Measurements #44 in Books > Science & Math > Physics > Applied #142 in Books > Science & Math > Physics > Mathematical Physics

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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 perfect for students on introductory courses in physics, engineering and mathematics.

Don S. Lemons is Professor Emeritus of Physics at Bethel College, Kansas, and has served as an assistant editor of the American Journal of Physics. He is a member of the American Physical Society and his research focuses primarily on plasma physics.

As Engineer I love the mathematical models but I love much more the "magnitud order" , when in real situations you need fast answers to know how the things are gonna happen with the use of some handful of variables. This book is perfect to understand the art in the Dimensional Analysis and the Professor Lemons explain it from scratch with all the rigours of a new science. Thank you Mr. Lemons to think in the people that every day need to face real problems and solve them in some minutes.

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