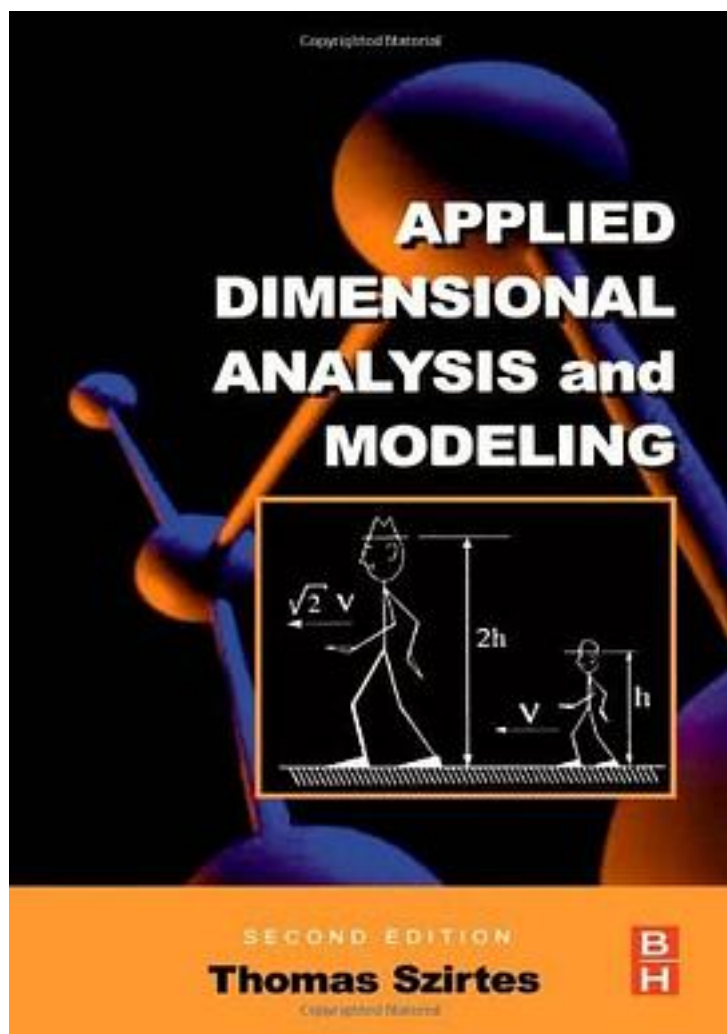


# Applied Dimensional Analysis and Modeling



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"Applied Dimensional Analysis and Modeling" provides the full mathematical

background and step-by-step procedures for employing dimensional analyses, along with a wide range of applications to problems in engineering and applied science, such as fluid dynamics, heat flow, electromagnetics, astronomy and economics. This new edition offers additional worked-out examples in mechanics, physics, geometry, hydrodynamics, and biometry. It covers 4 essential aspects and applications such as: principal characteristics of dimensional systems; applications of dimensional techniques in engineering, mathematics and geometry; applications in biosciences, biometry and economics; and applications in astronomy and physics. It offers more than 250 worked-out examples and problems with solutions. It provides detailed descriptions of techniques of both dimensional analysis and dimensional modeling.

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