



# Applied Dimensional Analysis and Modeling

*By Thomas Szirtes*

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## **Applied Dimensional Analysis and Modeling** By Thomas Szirtes

Learn to apply the "dimensional method" to facilitate the design and testing of engineering and physical systems and greatly accelerate the development of products. This is the first book to offer a practical approach to modeling and dimensional analysis, emphasizing the interests and problems of the engineer and applied scientist. Packed with illustrations, graphs, numeric tables, and concrete case studies, this in-depth reference work explains both dimensional analysis and scale modeling...concisely describes constructions of dimensional systems, including SI (metric) and Imperial (U.S.)...and provides over 250 worked-out examples drawn from engineering, applied physics, biomechanics, astronomy, geometry, and economics .

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## **Applied Dimensional Analysis and Modeling** By Thomas Szirtes Bibliography

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## **Editorial Review**

From the Back Cover

Capitalize on the powerful "dimensional method" for designing and testing all types of engineering and physical systems. Learn the fine art of applied dimensional techniques--analyses and modeling--to facilitate the design and testing of engineering systems and accelerate the development of products. This is a book that offers a practical, results-oriented approach to methods of dimensional analysis and modeling, emphasizing the interests and problems of the engineer and applied scientist. Packed with illustrations, graphs, numeric tables, substantive case studies, this in-depth reference puts the vast potential of the "dimensional method" at your disposal. This practical productivity tool: Explains both dimensional analysis and scale modeling in a comprehensive manner; Concisely describes the structure and principal characteristics of dimensional systems, including the SI (metric) and Imperial (U.S.) systems; Gives a newly developed and extremely efficient method of generating dimensionless variables, which form the bases of all dimensional modeling; Provides over 250 worked-out examples drawn from engineering, applied physics, biomechanics, astronomy, geometry, and economics. A landmark reference with a broad range of design, testing, and evaluation applications, *Applied Dimensional Analysis and Modeling* will save you enormous amounts of time, money, and effort in product development testing--and minimize the likelihood of design flaws.

About the Author

Thomas Szirtes is a professional engineer who devotes his career to consulting, writing, and teaching. He is a former Senior Staff Engineer at SPAR Aerospace, Ltd. in Toronto, and was one of the project engineers of the Shuttle Robotic Manipulator Arm (CANADARM) project, for which he received NASA's Achievement Award. Dr. Szirtes has published over 60 scientific and engineering papers, as well as a college text on mathematical logic. He taught at the Technical University of Budapest, McGill University, and Loyola College in Montreal, and was a founding editor of the *SPAR Journal of Engineering and Technology*.

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