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scaling starts from the governing equations, whereas dimensional analysis starts much more basically, namely, from the dimensions involved in the system, and it may even predict from them some quantitative features of the model without knowledge of the model equations. The basic idea of dimensional analysis is easily explained.

Dimensional Analysis and Scaling

Bridgman (1969) explains it thus: "The principal use of dimensional analysis is to deduce from a study of the dimensions of the variables in any physical system certain limitations on the form of any possible relationship between those variables. The method is of great generality and mathematical simplicity".

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Dimensional Analysis is written for all branches of engineering and science as a teaching book covering both undergraduate and postgraduate courses, as a guide for the lecturer and as a reference volume for the researcher.

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There is 1 pending change awaiting review. Dimensional analysis is a mathematical technique used to predict physical parameters that influence the flow in fluid mechanics, heat transfer in thermodynamics, and so forth. The analysis involves the fundamental units of dimensions MLT: mass, length, and time.

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Pages 39 - 56. This chapter presents the foundations of Dimensional Analysis. It discusses the axioms upon which

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Dimensional Analysis rests and shows that there is no preferred system of units in Nature. It then expands that point and proves Fourier's contention that physical equations require dimensional homogeneity.

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Example 1.4. Using Dimensions to Remember an Equation

Suppose we need the formula for the area of a circle for some computation. Like many people who learned geometry too long ago to recall with any certainty, two expressions may pop into our mind when we think of circles: πr^2 and $2\pi r$. One expression is the circumference of a circle of radius r and the other is its area.

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