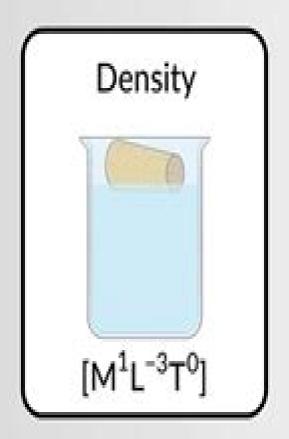
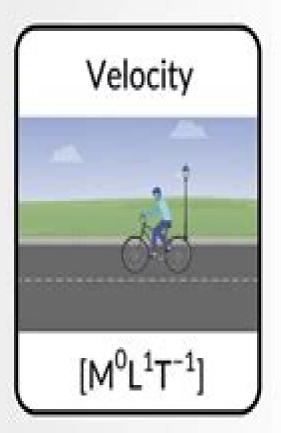
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units without introducing a corresponding dimensional constant into the list of variables so that the difference between the number of variables and the units would be less by one when using four than when using three fundamental units and the arguments of the function would be fewer in number which is desirable We shall meet an example illustrating this point later KEFERENCES 1 Fourier Theorie de Chaleur 160 As dealing with the general question of the proper number of fundamental units may be mentioned E Buckingham Nat 96 208 and 396 1915 CHAPTER VI EXAMPLES ILLUSTRATIVE OF DIMENSIONAL ANALYSIS Let us in the first place recapitulate the results of the preceding chapter Before undertaking a dimensional analysis we are to imagine ourselves as making an analysis to the extent of deciding the nature of the problem and enumerating the physical variables which would enter the equations of motion in the general sense and also the dimensional coefficients required in writing down the equations of motion The dimensions of all these variables are

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quantum mechanics particle physics field theory condensed matter physics and astrophysics and gravitation Many worked examples are included as well as an extensive array of end of chapter problems with a solution manual available to instructors In addition to covering the standard topics in the undergraduate curriculum the book explores how dimensional analysis has been used and continues to be used in research across all fields of physics citing examples from the historical literature and from very recent research results The work includes extensive references to the original papers for further study as well as useful ancillary material including a dimensional analysis dictionary brief introductions to data fitting and connections to metrology There is an emphasis throughout on the use of modern symbolic programming to streamline the process of the solving systems of linear equations needed for a dimensional analysis approach with several Mathematica templates provided for reader use **Application of Dimensional Analysis in Economics** W.M. Grudzewski, 2013-08-20 The modeling of economic phenomena and processes in terms of their static and dynamic features and with regard to the characteristics of their course is a major methodological trend in studies of the nature properties and functioning of contemporary management systems Models describing management systems must be of a multi aspect nature entailing aspects such as technical economic and sociological factors on the one hand and forecasting planning leading controlling etc on the other Developing a method for incorporating such diverse data into a system of analysis is needless to say a complex process Dimensional analysis is a tool which might be useful in this process but one which up to now has been little explored in the economic sciences This book explores the application of dimensional analysis in the field of economics It has been structured in a way which corresponds to the formulation of economic quantities and is divided into five sections measuring of economic quantities modeling of economic processes principles of dimensional analysis building of quantified dimensional models and experiment and practical verification

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