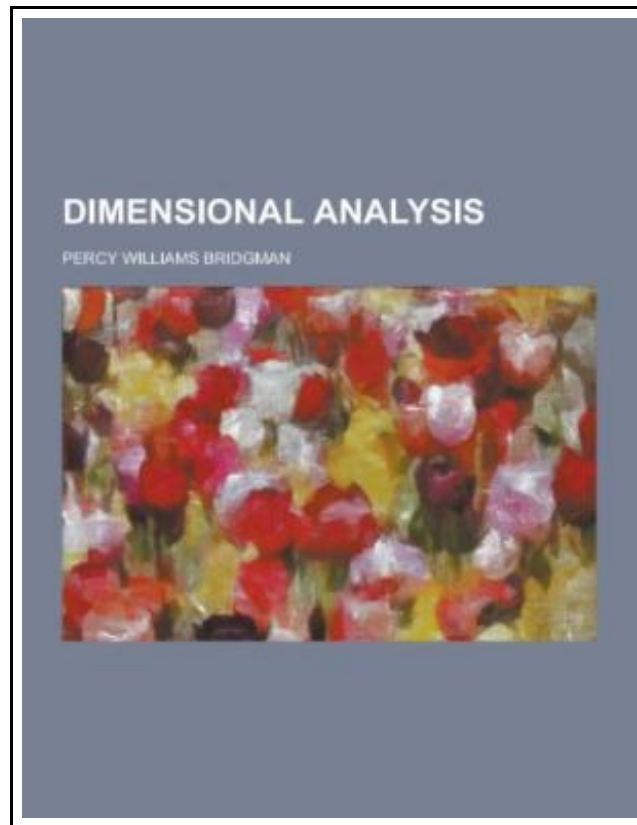


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Theclassics.Us, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1922 edition. Excerpt: .between the number of fundamental units and the number of variables, which determines the number of arguments of the unknown function, is the same in either case, because when the number of units is augmented by one by including the force, the number of variables is also augmented by one by including the dimensional constant, and the difference remains constant. If, however, the problem were such that the experimental relation between force, mass, and acceleration is not involved in the equations of motion of the system, then the ordinary mechanical units would be inappropriate, because we would obtain less information when using them. For we could in this case use four fundamental 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. REFERENCES (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...

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