

Elementary Introduction To New Generalized Functions

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The author's previous book 'New Generalized Functions and Multiplication of Distributions' (North-Holland, 1984) introduced new generalized functions in order to explain heuristic computations of Physics and to give a meaning to any finite product of distributions. The aim here is to present these functions in a more direct and elementary way. In Part I, the reader is assumed to be familiar only with the concepts of open and compact subsets of \mathbb{R} , of C sharp functions of several real variables and with some rudiments of integration theory. Part II defines tempered generalized functions, i.e. generalized functions which are, in some sense, increasing at infinity no faster than a polynomial (as well as all their partial derivatives). Part III shows that, in this setting, the partial differential equations have new solutions. The results obtained show that this setting is perfectly adapted to the study of nonlinear partial differential equations, and indicate some new perspectives in this field. EAN/ISBN : 9780080872247 Publisher(s): Elsevier Science & Technology, North Holland Discussed keywords: Funktion (Mathematik) Format: ePub/PDF Author(s): Colombeau, Jean Fr.

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