

The Breadth and Depth of Continuum Mechanics

A Collection of Papers Dedicated to
J. L. Ericksen

Editors: C. M. Dafermos, D. D. Joseph, and F. M. Leslie



Springer-Verlag Berlin Heidelberg New York Tokyo

The Breadth And Depth Of Continuum Mechanics

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The Breadth and Depth of Continuum Mechanics Constantine M. Dafermos, Daniel D. Joseph, Frank M. Leslie, 2012-12-06 This volume collects papers dedicated to Jerry Ericksen on his sixtieth birthday December 20 1984 They first appeared in Volumes 82 90 1983 1985 of the Archive for Rational Mechanics and Analysis At the request of the Editors the list of authors to be invited was drawn up by C M Dafermos D D Joseph and F M Leslie The breadth and depth of the works here reprinted reflect the corresponding qualities in Jerry Ericksen's research teaching scholarship and inspiration His interests and expertise center upon the mechanics of materials and extend to everything that may contribute to it pure analysis algebra geometry through all aspects of theoretical mechanics to fundamental experiment all of these illuminated by an intimate and deep familiarity with the sources even very old ones He is independent of school and contemptuous of party spirit his generosity in giving away his ideas is renowned but not everyone is capable of accepting what is offered His writings are totally free of broad claims and attributions beyond his own study Some are decisive some are prophetic and all are forthright His work has served as a beacon of insight and simple honesty in an age of ever more trivial and corrupt science The authors of the memoirs in this volume are his students colleagues admirers and above all his friends *The Breadth and Depth of Continuum Mechanics*, 1986 [Springer Handbook of Experimental Solid Mechanics](#) William N. Sharpe, Jr., William N. Sharpe, 2008-12-04 The Springer Handbook of Experimental Solid Mechanics documents both the traditional techniques as well as the new methods for experimental studies of materials components and structures The emergence of new materials and new disciplines together with the escalating use of on and off line computers for rapid data processing and the combined use of experimental and numerical techniques have greatly expanded the capabilities of experimental mechanics New exciting topics are included on biological materials MEMS and NEMS nanoindentation digital photomechanics photoacoustic characterization and atomic force microscopy in experimental solid mechanics Presenting complete instructions to various areas of experimental solid mechanics guidance to detailed expositions in important references and a description of state of the art applications in important technical areas this thoroughly revised and updated edition is an excellent reference to a widespread academic industrial and professional engineering audience

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