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Fluid Dynamics

Lectures given at the 3rd 1982 Session of the
Centro Internazionale Matematico Estivo (C.I.M.E.)
held at Varenna, Italy, August 22 – September 1, 1982

Edited by H. Beirão da Veiga



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INTRODUCTION

This volume contains lectures and seminars presented at the "International Mathematical Summer Center" on "Fluid Dynamics" held at the "Villa Monastero", Varenna, Italy from August 22 to September 1, 1982.

The Session was organized by "Fondazione CIME" and sponsored by the Consiglio Nazionale delle Ricerche.

In organizing the meeting we have attempted to bring together different aspects in the field of fluid dynamics. Morning sessions were occupied by survey talks given by Prof. C. Bardos (Université Paris-Nord, France), Prof. A. Majda (University of California, Berkeley, U.S.A.) and Prof. J. Serrin (University of Minnesota, Minneapolis, U.S.A.).

The first part of this proceedings consists of C. Bardos and A. Majda lectures. Prof. Serrin's lectures on "Concepts of Continuum Thermo-mechanics" will appear later as part of a book. The second part consists of the afternoon seminar meetings about recent progress on the field.

I wish to express my thanks to the main lecturers, to all active participants who supported the meeting by their stimulating discussions and to the CIME scientific committee for the invitation to organize the conference.

Trento, October 1983.

Hugo BEIRÃO DA VEIGA

C.I.M.E. Session on Fluid Dynamics

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