

Fluid Structure Interaction II

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Preface

This book contains the edited proceedings of the second International Conference on Fluid Structure Interaction, which took place in Cadiz, Spain. The proceedings include specialized areas of interaction problem of fluid with a variety of structures encountered by the flow. The proceedings emphasize new research in this area for the advancement of the interaction problem and the latest work in the specialized field of fluid structure interaction. It presents new applications of this development to real world problems.

The contributors in this volume are experts from different fields of application providing valuable cross breeding of ideas and techniques in their contributions. The papers encompass a wide range of topics within the specialized area of fluid structure interaction. They combine interaction topics within the general theme from different types of fluids, e.g., wind, waves, and current and different structures, e.g., offshore and marine structures, bridges, tethers, and buildings.

The basic mathematical formulations of fluid structure interaction and their numerical modeling have been discussed as well as the physical modeling of the interaction problems.

The contents of the volume cover the following fields:

- Hydrodynamic Forces
- Offshore Structures
- Response of Structures including Fluid Dynamics
- USA Research in Modeling Structure Response to Severe Shock/Blast Loading
- Interaction Problems in CFD
- Vortex Shedding and Flow-induced Vibrations
- Experimental Studies
- Advances in CFD

The Editors are grateful to all authors for their excellent contributions and to the members of the International Scientific Advisory Committee who helped in selecting the papers included in this book

The Editors
Cadiz, Spain 2003

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