

ADVANCES IN **APPLIED MECHANICS**

Edited by

Erik van der Giessen

DELFT UNIVERSITY
OF TECHNOLOGY
DELFT, THE NETHERLANDS

Theodore Y. Wu

DIVISION OF ENGINEERING AND APPLIED SCIENCE
CALIFORNIA INSTITUTE OF TECHNOLOGY
PASADENA, CALIFORNIA

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**Author and Subject Cumulative Index
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Preface

This volume contains the first Cumulative Index for the *Advances in Applied Mechanics*, covering volumes 1 through 34. With an average of roughly 350 pages per volume, the series so far comprises over 10,000 pages. Some of the older articles appear to be landmark papers with great historical value, some of the younger articles serve as a daily reference for many researchers today. The purpose of this index is to assist the readers in locating the accounts on the subjects of their interests which have appeared in any of the *Advances in Applied Mechanics* so far.

The first volume of this series was published in 1948 and was edited by two of the most prominent applied mechanicians of this century: Professors R. Von Mises (then at Harvard University) and Th. Von Karman (then at California Institute of Technology). For over twenty years it appeared at different time intervals until, starting with Vol. 11 in 1971, it was published yearly (except in 1985, 1986 and 1992) up to the most recent issue, Vol. 34, in 1998. Since the very first volume, the majority of volumes were edited by two editors: one from solid mechanics, the other from fluid mechanics. The most recent team of editors was formed by professors J.W. Hutchinson and T.-Y. Wu, who represented the same two universities that were involved in the first issue. It is appropriate at this occasion to acknowledge all editors who have made the series into what it is today.

Many new journals have seen the light since the start of this series. They apparently serve the publication needs of the community of solid and fluid mechanicians to referee and disseminate the expanding research activities. It is likely that, with the emerging possibilities of electronic publication, elements of this publication tradition will change. Both developments, however, will probably intensify the need for archival journals like this one. It allows to gather significant contributions that are possibly scattered over many other technical journals and shape them into a coherent view on the subject. It is in this comprehensive form that recent advances can be a reference for future developments. Thus, we think that the *Advances in Applied Mechanics* will continue to play a role as a source of reference

material for active researchers, but certainly also for novices as a starting point for their own future developments.

The 34 volumes that have appeared so far have combined advances in solids mechanics and in fluid mechanics, and for good reasons. Obviously, both fields have a common background; also there has been the hope and expectation among many in the two communities that the two fields would gradually merge and unify. There certainly have been directions, notably rheology, where solid mechanics and fluid mechanics have grown towards each other, but at the same time both fields have expanded enormously into other, and partly opposite, directions. As we are marching into the new century, it is felt that the scientific community may perhaps be served better with dedicated issues. Therefore, in the near future, *Advances in Applied Mechanics* will be published as separate Solid Mechanics and Fluid Mechanics volumes.

We hope that in this new form, together with two new Boards of Advisory Editors, this series will continue to satisfy its readers.

Theodore Y. Wu and Erik van der Giessen



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