

I first thought of writing this book back in 1982, when I was gaining working experience in Eulerian-style current measurement technologies at the Marine Instrumentation Division of CSIR—National Institute of Oceanography, Goa, India. My boss, Dr. Ehrlich Desa, supported me in this endeavor. A manuscript I prepared in 1985 was reviewed by Dr. Narayana Swamy and Dr. Desa, who encouraged me to expand the scope and contents. My well-wisher, the late Dr. Rabin Sen Gupta (a chemical oceanographer by profession), frequently used to inspire me to quickly complete the writing and get it published by Elsevier. Elsevier showed interest in this project and even sent me a reminder.

However, during this time my attention was diverted to sea-level measurement technologies, the importance of which became so obvious in the aftermath of the unfortunate December 2004 Sumatra tsunami event; therefore, destiny had it that I should first publish a book on tsunamis. Thus, my first book was published in February 2011 by Elsevier, New York.

By the time I again put my hand to the task of completing the unfinished work on current measurement technologies in March 2011, the subject had blossomed to a much bigger, and so to say unwieldy, branch of oceanography, having fundamentally and profoundly changed our capability to see the ocean in motion. After much effort I managed to categorize the whole subject matter into different disciplines, put them together as a full manuscript, and submitted to Elsevier.

Dr. Albert J. Williams 3<sup>rd</sup> (Scientist Emeritus, Woods Hole Oceanographic Institution, USA) helped me a good deal in finding other experts from which to seek suggestions. Several experts in various branches of oceanic current measurement technologies provided comments and suggestions related to the content and organization, enabling me to include all the important aspects of these

technologies and properly organize them into the present book. Their suggestions in finalizing the title and subtitle of the book were also valuable.

It is a pleasure to acknowledge the contributions of several individuals in the preparation of this work and to thank them for their support. Included in this list are Dr. Brian K. Haus, Associate Professor and Chair, Rosenstiel School of Marine & Atmospheric Sciences, University of Miami; Dr. Arata Kaneko, Professor, Graduate School of Engineering, Hiroshima University; Dr. Peter Spain, Scientist, Teledyne RD Instruments and IEEE Current Meter Technology Committee; and Dr. Mal Heron, IEEE. I thank Mrs. Surekha Nagvekar for helping me in the voluminous literature search. Mr. V. Githin and Mr. H. Bharat provided support in the preparation and modification of several diagrams. Apart from providing valuable suggestions, Dr. Albert J. Williams 3<sup>rd</sup> donated some beautiful pictures from his own archives. He also kindly agreed to write the foreword for this book. Dr. Philip Woodworth and Mr. Peter Foden, National Oceanography Centre, United Kingdom, and several scientists and technologists of the National Institute of Oceanography, Goa, India; Dr. T. Pankajakshan, Dr. S. Prasanna Kumar, Dr. M.R. Ramesh Kumar, Dr. P. Vethamony, Dr. M. T. Babu, Dr. V. Sanil Kumar, and Mr. V. Fernando supported me in several ways in this endeavor. I am profoundly grateful to all of them.

Once again, I express my gratitude to the late Dr. Rabin Sen Gupta, who stimulated my interest in writing a comprehensive book on measuring ocean currents.

*Antony Joseph*

**Antony Joseph**