FLUID MECHANICS: PROBLEM SOLVING USING MATLAB

Komaragiri Srinivasa Raju • Dasika Nagesh Kumar

Fluid Mechanics has transformed from fundamental subject to application-oriented subject. Over the years, numerous experts introduced number of books on the theme. Majority of them are rather theoretical with numerical problems and derivations. However, due to increase in computational facilities and availability of MATLAB and equivalent software tools, the subject is also transforming into computational perspective. We firmly believe that this new dimension will greatly benefit present generation students.

The present book is an effort to tackle the subject in MATLAB environment and consists of 16 chapters. The book can support undergraduate students in fluid mechanics, and can also be referred to as a text/reference book.

KEY FEATURES

- Explanation of Fluid Mechanics in MATLAB in structured and lucid manner
- 161 Example Problems supported by corresponding MATLAB codes compatible with 2016a version
- 162 Exercise Problems for reinforced learning
- 12 MP4 Videos for the demonstration of MATLAB codes for effective understanding while enhancing thinking ability of readers
- A Question Bank containing 261 Representative Questions and 120 Numerical Problems

THE AUTHORS

KOMARAGIRI SRINIVASA RAJU (PhD from IIT Kharagpur) is Professor, Department of Civil Engineering, Birla Institute of Technology and Science, Pilani-Hyderabad Campus. He has several years of teaching and research experience. A recipient of several awards for his research work, Dr. Srinivasa Raju has published numerous research papers in various leading national and international journals of repute. He has co-authored two books including *Multicriterion Analysis in Engineering and Management* published by PHI Learning, Delhi. His research interests include Impact of Climate Change on Water Resources, Water Resources Systems, Multicriterion Decision Making and Soft Computing Applications in Water Resources Engineering. He completed five sponsored projects including two collaborative projects with Indian Institute of Science, Bangalore on Climate Modelling and Integrated Urban Flood Management. He has been reviewer for more than 42 international journals.

DASIKA NAGESH KUMAR (PhD from IISc Bangalore) is with the Department of Civil Engineering, Indian Institute of Science (IISc), Bengaluru. He is also the Chairman, Centre for Earth Sciences; Prof. Satish Dhawan Chair Professor; Associate Faculty, Interdisciplinary Centre for Water Research; Divecha Centre for Climate Change, IISc Bangalore. He has several years of teaching and research experience. A recipient of several awards, Dr. Nagesh Kumar has also published more than 100 papers in international journals of repute. He has co-authored six textbooks including *Multicriterion Analysis in Engineering and Management* published by PHI Learning, Delhi. His research interests include Climate Hydrology, Water Resources Systems, Climate Change Impact on Water Resources, and Geographical Information System Applications in Water Resources Engineering. He has been reviewer for more than 80 international journals and about 100 PhD theses.

ISBN:978-93-89347-62-3

₹ 495.00

www.phindia.com

EEE

Srinivasa Raju
Nagesh Kumar

FLUID MECHANICS
Problem Solving Using MATLAB

PHI

Eastern Economy Edition

FLUID MECHANICS
Problem Solving Using MATLAB

PHI

Komaragiri Srinivasa Raju
Dasika Nagesh Kumar