

Analysis and Modelling of Non-Steady Flow in Pipe and Channel Networks

By Vinko Jovic

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Analysis and Modelling of Non-Steady Flow in Pipe and Channel Networks deals with flows in pipes and channel networks from the standpoints of hydraulics and modelling techniques and methods. These engineering problems occur in the course of the design and construction of hydroenergy plants, water-supply and other systems. In this book, the author presents his experience in solving these problems from the early 1970s to the present day. During this period new methods of solving hydraulic problems have evolved, due to the development of computers and numerical methods.

This book is accompanied by a website which hosts the author's software package, ***Simpip*** *(*an abbreviation of ***sim****ulation of* ***pip****e flow)* for solving non-steady pipe flow using the finite element method. The program also covers flows in channels. The book presents the numerical core of the SimpipCore program (written in Fortran).

Key features:

- Presents the theory and practice of modelling different flows in hydraulic networks
- Takes a systematic approach and addresses the topic from the fundamentals
- Presents numerical solutions based on finite element analysis
- Accompanied by a website hosting supporting material including the SimpipCore project as a standalone program

Analysis and Modelling of Non-Steady Flow in Pipe and Channel Networks is an ideal reference book for engineers, practitioners and graduate students across engineering disciplines.

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Analysis and Modelling of Non-Steady Flow in Pipe and Channel Networks By Vinko Jovic Bibliography

- Sales Rank: #2029083 in Books
- Published on: 2013-05-13
- Original language: English
- Number of items: 1
- Dimensions: 9.90" h x 1.22" w x 6.80" l, 2.10 pounds
- Binding: Hardcover
- 544 pages

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