



Turbopumps and Pumping Systems

By Ahmad Nourbakhsh, André Jaumotte, Charles Hirsch, Hamideh B. Parizi

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Everything important, up-to-date and practical about turbopumps can be found in this book. The material is arranged to cover the most important topics, from basic theories to practical applications. This book can also serve as a useful textbook for students who are taking courses in the area of turbopumps and hydraulic machineries. It is the complete reference book for turbopumps.

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Editorial Review

From the Back Cover

This book covers most of the subjects that are requested by engineers, those who are directly involved in design and manufacturing the pumps to those who operate the pumps in industrial units. The authors have worked for many years teaching the subject, conducting research, and implementing pump and pump station designs in different academic institutions, industrial sectors, and consulting firms. Based on this extensive background, the material of the book is arranged to cover the most important topics, from basic theories to practical applications. This book can also serve as a useful textbook for students who are taking the courses in the area of turbopumps and hydraulic machineries.

The book is divided into two major Parts. In Part I, Turbopumps, the basic information about pumps classification, definitions, principal of operation, and construction elements are presented. In Part II, Pumping Systems, the important parameters in pump operation, selection, pumping systems, and pump stations are discussed in details.

About the Author

Baron André Jaumotte

Andre Baron Jaumotte has been a professor at the Université Libre de Bruxelles, as well as the head of the institute of applied mechanics, institute of aeronautics, vice-chancellor and Chairman of the board of that University. He also serves as the chairman of the board of the von Karman Institute of Fluid Dynamics, and a member of the board of directors in the Belgium society of mechanical and environmental engineering.

Charles Hirsch

Charles Hirsch has served as professor and head of the department of fluid Mechanics at Vrije Universiteit Brussel. Dr. Hirsch is the founder and president of NUMECA International, provider of computational fluid dynamics (CFD) software and consulting services in Belgium and worldwide. He has edited 20 books, authored/co-authored 350 journals and conference papers, and has written a two-volume textbook on CFD: "Numerical Computation of Internal and External Flows".

Ahmad Nourbakhsh

Ahmad Nourbakhsh is a professor of turbomachinery at the Faculty of Engineering, University of Tehran. He is also a collaborative professor and researcher with the University of Brussels. Dr. Nourbakhsh had published two books in the field of turbopumps: "Pump and Pumping" and "Turbomachinery: Principles-Turbopumps".

Hamideh B. Parizi

Hamideh Parizi holds PhD in Mechanical Engineering from University of Toronto. She is presently working as the vice president of Simulent Inc, a software development and consulting company in Toronto, Canada. Dr. Parizi is also a co-writer of the book: "Pump and Pumping", Tehran university Publications.

Users Review

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