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Besides revising the whole book two new chapters numbered 17 in "Fluid Mechanics" (Part - I) and 8 in "Hydraulic Machines" (Part - II), the title of both being "Universities' Questions (Latest) with Solutions", have been added separately to update the book comprehensively.

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It is the property of fluid by virtue of which it offers resistance for the movement of one layer over the other and it is because of Cohesion I .e.attraction between the two layers. If the attraction between the two layers increases, resistance increases, and thereby the viscosity also increases. 9.

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Centrifugal Pump Definition: The hydraulic machine which converts the mechanical energy into Hydraulic energy is called Pumps. The hydraulic energy is in the form of pressure energy, If the mechanical energy is converted into pressure energy by means of a centrifugal force acting on the fluid, the hydraulic machine is called a Centrifugal pump.

~~Fluid Mechanics and Hydraulic Machines Page 2 of 3~~

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Fluid Mechanics and Hydraulic Machines, 2019_ (Manish Kumar).pdf pages: 993. 24 August 2020 (08:53) Post a Review . You can write a book review and share your experiences. Other readers will always be interested in your opinion of the books you've read. Whether you've loved the book or not, if you give your honest and detailed thoughts then ...

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Following a concise overview of fluid mechanics

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informed by numerous engineering applications and examples, this reference presents and analyzes major types of fluid machinery and the major classes of turbines, as well as pump technology. It offers professionals and students in hydraulic engineering with background concepts as well as practical coverage of modern turbine technologies, fully explaining the advantages of both steam and gas turbines. Description, design, and operational information for the Pelton, Francis, Propeller, and Kaplan turbines are provided, as are outlines of various types of power plants. It provides solved examples, chapter problems, and a thorough case study.

This comprehensive book is an earnest endeavour to apprise the readers with a thorough understanding of all important basic concepts and methods of fluid mechanics and hydraulic machines. The text is organised into sixteen chapters, out of which the first twelve chapters are more inclined towards imparting the conceptual aspects of fluids mechanics, while the remaining four chapters accentuate more on the details of hydraulic machines. The book is supplemented with solutions manual for instructors containing detailed solutions of all chapter-end unsolved problems. Primarily intended as a text for the undergraduate students of civil, mechanical, chemical and aeronautical engineering, this book will be of immense use to the postgraduate students of hydraulics engineering, water resources engineering, and fluids engineering. Key features • The book

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describes all concepts in easy-to-grasp language with diagrammatic representation and practical examples.

- A variety of worked-out examples are included within the text, illustrating the wide applications of fluid mechanics.
- Every chapter comprises summary that presents the main idea and relevant details of the topics discussed.
- Almost all chapters incorporate objective type questions of previous years' GATE examinations, along with their answers and in-depth explanations.
- Previous years' IES conventional questions are provided at the end of most of the chapters.
- A set of theoretical questions and numerous unsolved numerical problems are provided at the chapter-end to help the students from practice point-of-view.
- Every chapter consists of a section Suggested Reading comprising a list of publications that the students may refer for more detailed information.

This is an ideal offering for the complete course on Fluid Mechanics and Hydraulic Machines. Written in a simple and lucid style, the book covers the basic principles and its application to the solution of engineering problems. This book is apt for self-study by the students and lays down a strong foundation for problem-solving abilities.

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