

Idelchik Handbook Of Hydraulic Resistance 4th Edition

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Handbook of Hydraulic Resistance. The standard in the field for computing pipe sizes, pumping power, and pressure drops in ducts and piping. It is of value to all design engineers in chemical, mechanical, civil, petroleum, HVAC, and nuclear industries. The Handbook of Hydraulic Resistance, 3rd Edition, is the updated and expanded new edition of this bestselling reference.

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Robert. 5.0 out of 5 stars Handbook of Hydraulic Resistance. Reviewed in the United States on December 28, 2011. Verified Purchase. I enjoyed Idelchik's Handbook of Hydraulic resistance. It is a must for any fluid dynamicist to have when trying to determine loss coefficients for hydraulic components. Read more.

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Raschi et al. used hydraulic resistance equations proposed by Idelchik for wire screens of multiple shapes and sizes to model FD stents (Raschi et al., 2014; Idelchik and Fried, 1986). In his work,...

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Fittings pressure drop (fluids.fittings) — Fluids 0.1.87 ...

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The standard in the field for computing pipe sizes, pumping power, and pressure drops in ducts and piping. It is of value to all design engineers in chemical, mechanical, civil, petroleum, HVAC, and nuclear industries. The Handbook of Hydraulic Resistance, 3rd Edition, is the updated and expanded new edition of this bestselling reference. New topics considered include the elements of aerodynamics and hydraulics of pressure systems, as well as the physico-mechanical processes in the elements of pipelines. The book also offers recommendations regarding the calculation and selection of the elements of networks and means for decreasing the fluid resistance in shaped parts of pipelines. Hundreds of sketches, diagrams, and graphs are used to illustrate key concepts. The Handbook of Hydraulic Resistance, 3rd Edition, is an invaluable reference for engineers and researchers in the fields of mechanical, nuclear, power, civil, chemical, HVAC, and petroleum engineering.

Product Dimensions: 9.7 x 6.6 x 2.1 inches The Handbook has been composed on the basis of processing, systematization, and classification of the results of a great number of investigations published at different time. The essential part of the book is the outcome of investigations carried out by the author.The present edition of this Handbook should assist in increasing the quality and efficiency of the design and usage of industrial power engineering and other constructions and also of the devices and apparatus through which liquids and gases move.

A sourcebook offering an up-to-date perspective on a variety of topics and using practical, applications-oriented data necessary for the design and evaluation of internal fluid system pressure losses. It has been prepared for the practicing engineer who understands fluid-flow fundamentals.

This book is a generalist textbook; it is designed for anybody interested in heat transmission, including scholars, designers and students. Two criteria constitute the foundation of Annaratone ' s books, including the present one. The first one consists of indispensable scientific rigor without theoretical exasperation. The inclusion in the book of some theoretical studies, even if admirable for their scientific rigor, would have strengthened the scientific foundation of this publication, yet without providing the reader with further applicable know-how. The second criterion is to deliver practical solution to operational problems. This criterion is fulfilled through equations based on scientific rigor, as well as a series of approximated equations, leading to convenient and practically acceptable solutions, and through diagrams and tables. When a practical case is close to a well defined theoretical solution, corrective factors are shown to offer simple and correct solutions to the problem.

"Based almost exclusively on material presented in the recently published Handbook of hydraulic resistance, second edition, by I.E. Idelchik, a translation from the Russian"--Preface.

Hazim Awbi's Ventilation of Buildings has become established as the definitive text on the subject. This new, thoroughly revised, edition builds on the basic principles of the original text drawing in the results of considerable new research in the field. A new chapter on natural ventilation is also added and recent developments in ventilation concepts and room air distribution are also considered. The text is intended for the practitioner in the building services industry, the architect, the postgraduate student undertaking courses or research in HVAC, building services engineering, or building environmental engineering, and the undergraduate studying building services as a major subject. Readers are assumed to be familiar with the basic principles of fluid flow and heat transfer and some of the material requires more advanced knowledge of partial differential equations which describe the turbulent flow and heat transfer processes of fluids. The book is both a presentation of the practical issues that are needed for modern ventilation system design and a survey of recent developments in the subject

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