DESCRIPTION

This book teaches the fundamentals of fluid flow by including both theory and the applications of fluid flow in chemical engineering. It puts fluid flow in the context of other transport phenomena such as mass transfer and heat transfer, while covering the basics, from elementary flow mechanics to the law of conservation. The book then examines the applications of fluid flow, from laminar flow to filtration and ventilation. It closes with a discussion of special topics related to fluid flow, including environmental concerns and the economic reality of fluid flow applications.

ABOUT THE AUTHOR

James P. Abulencia is an Assistant Professor at Manhattan College. He received his BS degree in chemical engineering from Manhattan College, and his PhD in chemical and biomolecular engineering from Johns Hopkins University. In addition to teaching fluid flow, his research interests include the role of shear stress in blood thrombus formation, the gene regulation of chondrocytes, and tissue engineering strategies of osteochondral tissue.

Louis Theodore, PHD, is a Professor in the Chemical Engineering Department of Manhattan College. Dr. Theodore is coauthor of Introduction to Hazardous Waste Incineration, Second Edition; Handbook of Chemical and Environmental Engineering
Calculations; author of *Nanotechnology: Basic Calculations for Engineers and Scientists*; and a contributor to *Perry's Chemical Engineers' Handbook*.

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