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Mirza, I. A. Abdulhameed, M. and Shafie, S. 2017.

Magnetohydrodynamic approach of non-Newtonian blood  
flow with magnetic particles in stenosed artery. Applied ...

"Presents the fundamentals of momentum, heat, and mass  
transfer from both a microscopic and a macroscopic  
perspective. Features a large number of idealized and real-  
world examples that we worked out in detail."

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Fundamentals of Momentum, Heat and Mass Transfer, Revised, 6th Edition provides a unified treatment of momentum transfer (fluid mechanics), heat transfer and mass transfer. The new edition has been updated to include more modern examples, problems, and illustrations with real world applications. The treatment of the three areas of transport phenomena is done sequentially. The subjects of momentum, heat, and mass transfer are introduced, in that order, and appropriate analysis tools are developed.

Trump Fiction: Essays on Donald Trump in Literature, Film, and Television examines depictions of Donald Trump and his fictional avatars in literature, film, and television, including

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works that took up the subject of Trump before his successful presidential campaign (in terms that often uncannily prefigure his presidency) as well as those that have appeared since he took office. Covering a range of texts and approaches, the essays in this collection analyze the place Trump has assumed in literary and popular culture. By investigating how authors including Bret Easton Ellis, Amy Waldman, Thomas Pynchon, Howard Jacobson, Mark Doten, Olivia Laing, and Salman Rushdie, along with films and television programs like *The Fresh Prince of Bel-Air*, *Sesame Street*, *Sex and the City*, *Two Weeks Notice*, *Our Cartoon President*, and *Pose* have approached and shaped the discourse surrounding Trump, the contributors collectively demonstrate the ways these cultural artifacts serve as sites through which the culture both

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resists and abets Trump and his rise to power.

The book provides a unified treatment of momentum transfer (fluid mechanics), heat transfer, and mass transfer. This new edition has been updated to include more coverage of modern topics such as biomedical/biological applications as well as an added separations topic on membranes.

Additionally, the fifth edition focuses on an explicit problem-solving methodology that is thoroughly and consistently implemented throughout the text.

Chapter 1: Introduction to Momentum Transfer

Chapter 2: Fluid Statics

Chapter 3: Description of a Fluid in Motion

Chapter 4: Conservation of Mass: Control-Volume Approach

Chapter 5: Newton's Second Law of Motion: Control-Volume Approach

Chapter 6:

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Conservation of Energy: Control-Volume Approach· Chapter 7: Shear Stress in Laminar Flow· Chapter 8: Analysis of a Differential Fluid Element in Laminar Flow· Chapter 9: Differential Equations of Fluid Flow· Chapter 10: Inviscid Fluid Flow· Chapter 11: Dimensional Analysis and Similitude· Chapter 12: Viscous Flow· Chapter 13: Flow in Closed Conduits· Chapter 14: Fluid Machinery· Chapter 15: Fundamentals of Heat Transfer· Chapter 16: Differential Equations of Heat Transfer· Chapter 17: Steady-State Conduction· Chapter 18: Unsteady-State Conduction· Chapter 19: Convective Heat Transfer· Chapter 20: Convective Heat-Transfer Correlations· Chapter 21: Boiling and Condensation· Chapter 22: Heat-Transfer Equipment· Chapter 23: Radiation Heat Transfer· Chapter 24:

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Fundamentals of Mass Transfer· Chapter 25: Differential Equations of Mass Transfer· Chapter 26: Steady-State Molecular Diffusion· Chapter 27: Unsteady-State Molecular Diffusion· Chapter 28: Convective Mass Transfer· Chapter 29: Convective Mass Transfer Between Phases· Chapter 30: Convective Mass-Transfer Correlations· Chapter 31: Mass-Transfer Equipment

The entire book has been thoroughly revised and a large number of solved examples under heading Additional/Typical Worked Examples (Questions selected from various Universities and Competitive Examinations) have been added at the end of the book.

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A thorough introduction to the fundamentals and applications of microscopic and macroscopic mass transfer.

This best-selling book in the field provides a complete introduction to the physical origins of heat and mass transfer. Noted for its crystal clear presentation and easy-to-follow problem solving methodology, Incropera and Dewitt's systematic approach to the first law develop readers confidence in using this essential tool for thermal analysis.

- Introduction to Conduction
- One-Dimensional, Steady-State Conduction
- Two-Dimensional, Steady-State Conduction
- Transient Conduction
- Introduction to Convection
- External



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Flow· Internal Flow· Free Convection· Boiling and  
Condensation· Heat Exchangers· Radiation: Processes and  
Properties· Radiation Exchange Between Surfaces· Diffusion  
Mass Transfer

Fundamentals of Heat and Mass Transfer is written as a text book for senior undergraduates in engineering colleges of Indian universities, in the departments of Mechanical, Automobile, Production, Chemical, Nuclear and Aerospace Engineering. The book should also be useful as a reference book for practising engineers for whom thermal calculations and understanding of heat transfer are necessary, for example, in the areas of Thermal Engineering, Metallurgy, Refrigeration and Airconditioning, Insulation etc.

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"This comprehensive text on the basics of heat and mass transfer provides a well-balanced treatment of theory and mathematical and empirical methods used for solving a variety of engineering problems. The book helps students develop an intuitive and practical understanding of the processes by emphasizing the underlying physical phenomena involved. Focusing on the requirement to clearly explain the essential fundamentals and impart the art of problem-solving, the text is written to meet the needs of undergraduate students in mechanical engineering, production engineering, industrial engineering, auto-mobile engineering, aeronautical engineering, chemical engineering, and biotechnology.

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