

STANLEY MIDDLEMAN

# *Modeling Axisymmetric Flows*

*Dynamics of Films,  
Jets, and Drops*



# Modeling Axisymmetric Flows Dynamics Of Films Jets And Drops

**M. G. Velarde, Radyadour K.  
Zeytourian**



## **Modeling Axisymmetric Flows Dynamics Of Films Jets And Drops:**

**Modeling Axisymmetric Flows** Stanley Middleman,1995      Modeling Axisymmetric Flows Stanley

Middleman,1995-08-14 This concise book is intended to fulfill two purposes to provide an important supplement to classic texts by carrying fluid dynamics students on into the realm of free boundary flows and to demonstrate the art of mathematical modeling based on knowledge intuition and observation In the authors words the overall goal is make the complex simple without losing the essence the virtue of the complexity Modeling Axisymmetric Flows Dynamics of Films Jets and Drops is the first book to cover the topics of axisymmetric laminar flows free boundary flows and dynamics of drops jets and films The text also features comparisons of models to experiments and it includes a large selection of problems at the end of each chapter Contains problems at the end of each chapter Compares real world experimental data to theory Provides one of the first comprehensive examinations of axisymmetric laminar flows free boundary flows and dynamics of drops jets and films Includes development of basic equations Written in a style suitable for use as a textbook      Capillarity and Wetting Phenomena Pierre-Gilles de Gennes,Francoise Brochard-Wyart,David Quere,2013-03-20 As I glance out my window in the early morning I can see beads of droplets gracing a spider web The film of dew that has settled on the threads is unstable and breaks up spontaneously into droplets This phenomenon has implications for the treatment of textile fibers the process known as oiling glass and carbon It is no less important when applying mascara I take my morning shower The moment I step out I dry off by way of evaporation which makes me feel cold and by dewetting the process by which dry areas form spontaneously and expand on my skin As I rush into my car under a pelting rain my attention is caught by small drops stuck on my windshield I also notice larger drops rolling down and others larger still that like snails leave behind them a trail of water I ask myself what the difference is between these rolling drops and grains of sand tumbling down an incline I wonder why the smallest drops remain stuck The answers to such questions do help car manufacturers treat the surface of glass and adjust the tilt of windshields      **IUTAM Symposium on Free Surface Flows** A.C. King,Y.D.

Shikhmurzaev,2012-12-06 Free surface flows arise in the natural world physical and biological sciences and in some areas of modern technology and engineering Exam ples include the breaking of sea waves on a harbour wall the transport of sloshing fluids in partly filled containers and the design of micronozzles for high speed ink jet printing Apart from the intrinsic mathematical challenge in describing and solving the governing equations there are usually important environmental safety and engineering features which need to be analysed and controlled A rich variety of techniques has been developed over the past two decades to facilitate this analysis singular perturbations dynamical systems and the development of sophisticated numerical codes The extreme and sometimes violent nature of some free surface flows taxes these methods to the limit The work presented at the symposium addressed these limits and can be loosely classified into four areas i Axisymmetric free surface flows There are a variety of problems in the printing glass fertiliser and fine chemical industries in which threads of

fluid are made and controlled Presentations were made in the areas of pinch off for inviscid and viscous threads of fluid recoil effects after droplet formation and the control of instability by forced vibration ii Dynamic wetting The motion of three phase contact lines which are formed at the junction between two fluids and a solid plays an important role in fluid mechanics

*Microscale Heat Transfer - Fundamentals and Applications* S. Kakaç, L.L. Vasiliev, Y. Bayazitoglu, Y. Yener, 2006-05-20 This volume contains an archival record of the NATO Advanced Institute on Microscale Heat Transfer Fundamental and Applications in Biological and Microelectromechanical Systems held in esme Izmir Turkey July 18 30 2004 The ASIs are intended to be high level teaching activity in scientific and technical areas of current concern In this volume the reader may find interesting chapters and various Microscale Heat Transfer Fundamental and Applications The growing use of electronics in both military and civilian applications has led to the widespread recognition for need of thermal packaging and management The use of higher densities and frequencies in microelectronic circuits for computers are increasing day by day They require effective cooling due to heat generated that is to be dissipated from a relatively low surface area Hence the development of efficient cooling techniques for integrated circuit chips is one of the important contemporary applications of Microscale Heat Transfer which has received much attention for cooling of high power electronics and applications in biomechanical and aerospace industries Microelectromechanical systems are subject of increasing active research in a widening field of discipline These topics and others are the main theme of this Institute Physical Hydrodynamics Etienne Guyon, Jean-Pierre Hulin, Luc Petit, Catalin D. Mitescu, 2015 Exercises have also been added at the end of a number of chapters Spray Simulation Udo Fritsching, 2004-02-26 Spray forming combines the metallurgical processes of metal casting and powder metallurgy to fabricate metal products with enhanced properties This book provides an introduction to the various modelling and simulation techniques employed in spray forming and shows how they are applied in process analysis and development The author begins by deriving and describing the main models He then presents their application in the simulation of the key features of spray forming Wherever possible he discusses theoretical results with reference to experimental data Building on the features of metal spray forming he also derives common characteristic modelling features that may be useful in the simulation of related spray processes The book is aimed at researchers and engineers working in process technology chemical engineering and materials science *Processing by Centrifugation* Liya L. Regel, William R. Wilcox, 2011-06-28 This volume constitutes the proceedings of the Fourth International Workshop on Materials Processing at High Gravity held at Clarkson University May 29 to June 2 2000 There were 73 attendees from 16 countries Since the topics extended well beyond materials processing it was felt appropriate to name this proceedings Centrifugal Processing Processing by Centrifugation includes the traditional bench scale centrifuges as well as all rotating systems utilizing the centrifugal and Coriolis forces to provide unique performance Centrifugation led to the formation of sticky porous Teflon membranes as well as improved polymeric solar cells Centrifugation on large equipment improved the chemical vapor

deposition of diamond films influenced the growth and dissolution of semiconductor crystals and elucidated the influence of gravity on coagulation of colloidal Teflon A million g centrifuge was constructed and used to study sedimentation in solids and to prepare compositionally graded materials and new phases Rotation of a pipe about its axis allowed the casting of large diameter metal alloy pipes as well as coating the interior of pipes with a cermet utilizing self propagating high temperature synthesis Such coatings are highly corrosion and erosion resistant Flow on a rotating disk was shown to be useful for process intensification such as large scale manufacturing of nano particles polymerization reactions and heat mass transfer Several theoretical studies dealt with the influence of rotation on fluid convection on surfaces and in pipes tubes and porous media These have applications to integrated circuit chip manufacturing alloy casting oil production crystal growth and the operation of rotating machinery

**Interfacial Phenomena and the Marangoni Effect** M. G. Velarde, Radyadour K. Zeytourian, 2014-05-04 Marangoni 1878 provided a wealth of detailed information on the effects of variations of the potential energy of liquid surfaces and in particular flow arising from variations in temperature and surfactant composition One aspect of this science is seen today to bear on important phenomena associated with the processing of modern materials The role of the basic effect in technology was probably first demonstrated by chemical engineers in the field of liquid liquid extraction Indeed phenomena attributable to Marangoni flows have been reported in innumerable instances relevant to modern technologies such as in hot salt corrosion in aeroturbine blades the drying of solvent containing paints the drying of silicon wafers used in electronics in materials processing particularly in metallic systems which have been suspected to demonstrate Marangoni flows

**Multiphase Flow Handbook** Efstathios Michaelides, Clayton T. Crowe, John D. Schwarzkopf, 2016-10-26 The Multiphase Flow Handbook Second Edition is a thoroughly updated and reorganized revision of the late Clayton Crowe's work and provides a detailed look at the basic concepts and the wide range of applications in this important area of thermal fluids engineering Revised by the new editors Efstathios E Stathis Michaelides and John D Schwarzkopf the new Second Edition begins with two chapters covering fundamental concepts and methods that pertain to all the types and applications of multiphase flow The remaining chapters cover the applications and engineering systems that are relevant to all the types of multiphase flow and heat transfer The twenty one chapters and several sections of the book include the basic science as well as the contemporary engineering and technological applications of multiphase flow in a comprehensive way that is easy to follow and be understood The editors created a common set of nomenclature that is used throughout the book allowing readers to easily compare fundamental theory with currently developing concepts and applications With contributed chapters from sixty two leading experts around the world the Multiphase Flow Handbook Second Edition is an essential reference for all researchers academics and engineers working with complex thermal and fluid systems

[Multiphase Flow Handbook](#) Clayton T. Crowe, 2005-09-19 Because of the importance of multiphase flows in a wide variety of industries including power petroleum and numerous processing industries an understanding of the behavior

and underlying theoretical concepts of these systems is critical Contributed by a team of prominent experts led by a specialist with more than thirty years of experience the Multiphase Flow Handbook provides such an understanding and much more It covers all aspects of multiphase flows from fundamentals to numerical methods and instrumentation The book begins with an introduction to the fundamentals of particle fluid bubble interactions followed by gas liquid flows and methods for calculating system parameters It includes up to date information on practical industrial applications such as boiling and condensation fluidized beds aerosols separation systems pollution control granular and porous media flow pneumatic and slurry transport and sprays Coverage then turns to the most recent information on particle droplet fluid interactions with a chapter devoted to microgravity and microscale flows and another on basic multiphase interactions Rounding out the presentation the authors discuss numerical methods state of the art instrumentation and advanced experimental techniques Supplying up to date authoritative information on all aspects of multiphase flows along with numerous problems and examples the Multiphase Flow Handbook is the most complete reference available for understanding the flow of multiphase mixtures

*Heat Transfer Phenomena and Applications* Salim Newaz Kazi,2012-10-24 Heat transfer calculations in different aspects of engineering applications are essential to aid engineering design of heat exchanging equipment Minimizing of computational time is a challenging task faced by researchers and users Methodology of calculations in some application areas are incorporated in this book such as differential analysis of heat recoveries with CFD in a tube bank heating and ventilation of equipment and methods for analytical solution of nonlinear problems Numerical analysis is the prerequisite of design and for the manufacture of heat exchanging equipment Some numerical and experimental information are presented with utmost skill Similarly the analytical solution of heat transfer is touched in this book Study of heat transfer phenomena and applications are equally emphasized in this issue

*Design of Piezo Inkjet Print Heads* J. Frits Dijksman,2019-02-11 An integral overview of the theory and design of printheads authored by an expert with over 30 years experience in the field of inkjet printing Clearly structured the book presents the design of a printhead in a comprehensive and clear form right from the start To begin with the working principle of piezo driven drop on demand printheads in theory is discussed building on the theory of mechanical vibrations and acoustics Then the design of single nozzle as well as multi nozzle printheads is presented including the importance of various parameters that need to be optimized such as viscosity surface tension and nozzle shape Topics such as refilling the nozzle and the impact of the droplet on the surface are equally treated The text concludes with a unique set of worked out questions for training purposes as well as case studies and a look at what the future holds An essential reference for beginning as well as experienced researchers from ink developers to mechanical engineers both in industry and academia

Axisymmetric Laminar Jet Impingement Humphrey W. Chow,1997

**A New Hypothesis on the Anisotropic Reynolds Stress Tensor for Turbulent Flows** László Könözy,2020-12-01 This self contained interdisciplinary book encompasses mathematics physics computer programming analytical solutions and

numerical modelling industrial computational fluid dynamics CFD academic benchmark problems and engineering applications in conjunction with the research field of anisotropic turbulence It focuses on theoretical approaches computational examples and numerical simulations to demonstrate the strength of a new hypothesis and anisotropic turbulence modelling approach for academic benchmark problems and industrially relevant engineering applications This book contains MATLAB codes and C programming language based User Defined Function UDF codes which can be compiled in the ANSYS FLUENT environment The computer codes help to understand and use efficiently a new concept which can also be implemented in any other software packages The simulation results are compared to classical analytical solutions and experimental data taken from the literature A particular attention is paid to how to obtain accurate results within a reasonable computational time for wide range of benchmark problems The provided examples and programming techniques help graduate and postgraduate students engineers and researchers to further develop their technical skills and knowledge

*Chemical Engineering in the Pharmaceutical Industry* Mary T. am Ende, David J. am Ende, 2019-04-09 A guide to the important chemical engineering concepts for the development of new drugs revised second edition The revised and updated second edition of *Chemical Engineering in the Pharmaceutical Industry* offers a guide to the experimental and computational methods related to drug product design and development The second edition has been greatly expanded and covers a range of topics related to formulation design and process development of drug products The authors review basic analytics for quantitation of drug product quality attributes such as potency purity content uniformity and dissolution that are addressed with consideration of the applied statistics process analytical technology and process control The 2nd Edition is divided into two separate books 1 Active Pharmaceutical Ingredients API s and 2 Drug Product Design Development and Modeling The contributors explore technology transfer and scale up of batch processes that are exemplified experimentally and computationally Written for engineers working in the field the book examines in silico process modeling tools that streamline experimental screening approaches In addition the authors discuss the emerging field of continuous drug product manufacturing This revised second edition Contains 21 new or revised chapters including chapters on quality by design computational approaches for drug product modeling process design with PAT and process control engineering challenges and solutions Covers chemistry and engineering activities related to dosage form design and process development and scale up Offers analytical methods and applied statistics that highlight drug product quality attributes as design features Presents updated and new example calculations and associated solutions Includes contributions from leading experts in the field Written for pharmaceutical engineers chemical engineers undergraduate and graduation students and professionals in the field of pharmaceutical sciences and manufacturing *Chemical Engineering in the Pharmaceutical Industry Second Edition* contains information designed to be of use from the engineer s perspective and spans information from solid to semi solid to lyophilized drug products      **Advances in Applied Mechanics** Stéphane P.A. Bordas, 2021-11-23 *Advances in Applied*

Mechanics Volume 54 in this ongoing series highlights new advances in the field with this new volume presenting interesting chapters on Advanced geometry representations and tools for microstructural and multiscale modelling Material Point Method overview and challenges ahead From Experimental Modeling of Shotcrete to Numerical Simulations of Tunneling Mechanics of Hydrogel Based Bioprinting From 3D to 4D and more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Applied Mechanics series

**Advanced Coal Preparation and Beyond** S. Komar Kawatra, 2020-01-27 Updating content from the author's 2001 book Coal Desulfurization this new title focuses on CO<sub>2</sub> sequestration and utilization It includes information on the theory and practical approaches to CO<sub>2</sub> capture and recent advances in the use of sequestered CO<sub>2</sub> Avoiding these pollutants requires either forgetting about the 250 billion tons of coal reserves the United States possesses or capturing and utilizing the pollutants in a profitable and environmentally responsible fashion The book covers postcombustion and precombustion capture approaches for coal and postcombustion capture can be generalized to many other fuels Recent practical implementations at full scale power facilities around the world are discussed The book covers sequestering CO<sub>2</sub> via underground oceanic biological and other long term CO<sub>2</sub> storage methods It also includes recent advances in utilizing CO<sub>2</sub> for enhanced oil recovery advances in storage with depleted oil and gas reservoirs and deep saline aquifers and additional topics The book also examines specific applications of pure CO<sub>2</sub> and covers chemical conversion of CO<sub>2</sub> to useful compounds It answers questions like Can we create methanol from coal or Can we create ethanol from coal It is found that methanol and ethanol cannot be sustainably produced from coal power alone However oxalic acid can be created at a much lower energy cost than methanol or ethanol Oxalic acid can be used to extract rare earths which are not currently produced anywhere in the United States but are typically concentrated in coal ash Aimed at researchers and industry professionals in chemical environmental and energy engineering this book provides insight and inspiration into capturing CO<sub>2</sub> not merely as a response to regulatory pressure and climate change but as an inherently profitable and valuable venture

**Additive and Traditionally Manufactured Components** Joshua Pelleg, 2020-04-30 Additive and Traditionally Manufactured Components A Comparative Analysis of Mechanical Properties looks at the mechanical properties of materials produced by additive manufacturing AM and compares them with conventional methods Since the production of objects by AM techniques can be used in a broad array of materials the alloys presented are the ones most commonly produced by AM Al alloys Ti alloys and steel The book explores the six main types of techniques Fused Deposition Method FDM Powder Bed Fusion PBF Inkjet Printing Stereolithography SLA Direct Energy Deposition DED and Laminated Object Manufacturing LOM and follows with the techniques being utilized for fabrication Testing of AM fabricated specimens including tension compression and hardness is included along with a comparison of those results to specimens obtained by conventional fabrication methods Topics covered include static deformation time dependent deformation creep cyclic deformation fatigue and fracture in specimens



The book concludes with a review of the mechanical properties of nanoscale specimens obtained by AM Thoroughly explores AM processes that can be utilized for experimental design Includes a review of dislocations observed in specimens obtained by AM Compares the impact of both additive and traditional manufacturing techniques on the mechanical properties of materials     **Proceedings of the ASME Advanced Energy Systems Division** American Society of Mechanical Engineers. Advanced Energy Systems Division,2004

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