1. Record Nr. UNINA990003032060403321

Titolo	Comportamenti d'impresa e informazione del consumatore : un'analisi empirica sui prezzi del pernottamento turistico / Guido Candela, Roberto Cellini, Antonello E. Scorcu
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Nota di contenuto	Cover -- Title Page -- Copyright Page -- Contents -- Preface -- Acknowledgements -- Dedication -- Chapter 1 Fluid Physics in Circulatory Systems - Problems, Analogies and Methods -- Presentation philosophy -- 1.1 Basic Biological Notions and Fluid-Dynamical Ideas -- Conduit flow examples -- Basic continuous flow concepts -- Eulerian versus Lagrangian descriptions -- Steady versus transient models -- Newtonian versus non-Newtonian flows -- Porous media continuum flow models -- Darcy flows in human and animal tissue -- Objectives in conduit and Darcy flow modeling -- 1.2 Quantitative Modeling Perspectives -- 1.2.1 Rheology considerations in conduit flows -- Better arterial flow models needed -- 1.2.2 Darcy flow model in continuous media -- Temperature diffusion -- Darcy flow pressure diffusion -- Important porous media approach -- Relevance of Darcy flows to biofluids -- 1.3 Preview of Complicated but Simple Boundary Value Problem Solutions -- Closing remarks -- 1.4 References -- Chapter 2 Math Models, Differential Equations and Numerical Methods -- 2.1 Presentation Approach -- What we won't do -- Pursuing studies that uncover the physics -- Examples on presentation approach -- 2.2 Diffusion Processes, Partial Differential

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Boundary conditions -- Fast iterative solutions -- On Laplacian transformations -- 2.3.2.2 Grid generation for singly-connected conduit flow -- 2.4 Finite Difference Solutions Made Easy - Iterative Methods, Programming and Source Code Details -- 2.4.1 Basic ideas in finite differences -- A simple differential equation -- Variable coefficients and grids -- 2.4.2 Formulating steady flow problems -- Direct versus iterative solutions -- Iterative methods -- Convergence acceleration -- Wells and internal boundaries -- Peaceman well corrections -- Derivative discontinuities -- Point relaxation methods -- Observations on relaxation methods -- Minimal computing resources -- Good numerical stability -- Fast convergence -- Why relaxation methods converge -- Over-relaxation -- Line and point relaxation -- Curvilinear grid generation and relaxation solutions -- Coupled equations on curvilinear meshes -- 2.5 References -- Chapter 3 Hagen-Poiseuille Extensions - Real Flow Effects and General Bifurcations -- 3.1 Blood Rheology and Overview -- 3.1.1 Hagen-Poiseuille - Misunderstandings and limitations -- 3.1.2 Ideal versus non-Newtonian rheology -- 3.1.3 Some conventional rheological models -- 3.1.4 Perfect concentric flow velocity, pressure and flow rate relations -- Newtonian flow solution -- Bingham Plastic pipe flow -- Power Law fluid pipe flow -- Herschel-Bulkley pipe flow -- Ellis fluid pipe flow -- 3.1.5 Example solutions for imperfect arteries with stenosis and book presentation outline -- Book presentation outline -- 3.2 Newtonian Flow in Simple Bifurcations -- 3.2.1 Theory - Two uneven bifurcated blood vessels with Q1 specified -- Case 1. Flow rate Q1 prescribed -- Case 2. Inlet pressure Pi prescribed -- Case 3. Identical outlet pressures Po,2 and Po,3 given -- 3.2.2 Software - Two uneven bifurcated arteries with Q1 specified (Reference, CODE-1). An example computation -- An additional validation -- 3.2.3 Theory - Two uneven bifurcated arteries with Pi specified -- 3.2.4 Software - Two uneven bifurcated arteries with Pi specified (Reference, CODE-2) -- A practical example -- 3.3 Theory - Complicated Arteries with Chained Bifurcations -- 3.4 Network with Arbitrary Number of Bifurcations -- 3.5 Bifurcated Newtonian Flow in Noncircular Clogged Blood Vessels -- 3.6 References -- Chapter 4 Non-Newtonian Flow in Circular Conduits and Networks -- Bifurcation model and analytical approach -- Different rheological applications -- Validation procedures -- 4.1 Power Law Fluids with Inlet Flow Rate Prescribed -- Iterative "half-step" solution for Pa and Pi -- Shear stress -- Typical parameters -- Example calculations -- 4.2 Herschel-Bulkley Fluids and Yield Stress -- 4.2.1 Analytical and numerical approach -- Yield stress modeling -- 4.2.2 BIFURC-6 runs assuming ôy = 0 psi (Power Law limit) -- 4.2.3 BIFURC-6 runs assuming ôy = 0.00001 psi -- 4.3 Newtonian and Herschel-Bulkley Examples -- Power Law limitations -- 4.4 References -- Chapter 5 Flows in Clogged Arteries and Veins -- 5.1 Hagen-Poiseuille Revisited - Rectangular Coordinates -- Newtonian pipe flow recapitulation -- A physical description -- Detailed assessments -- Recapitulation -- 5.2 Non-Newtonian Power Law Circular Pipe Flow in

Rectangular Coordinates -- 5.3 Clinical Implications for Pressure Gradient and Viscous Shear Stress -- 5.4 Evolutionary Approaches for Complicated Geometries -- Static versus evolutionary approaches -- 5.5 A Detailed Clog Flow Computation -- Simulation 1 - Newtonian flow in perfect circle -- Simulation 2 - Power Law flow in perfect circle -- Simulation 3 - Power Law flow in a clogged blood vessel -- 5.6 References -- Chapter 6 Square Stents, Centrifugal Effects, Pulsatile Flow, Clogged Bifurcations and Axial Variations.
6.1 Stent Geometry Effects on Volume Flow Rate -- 6.1.1 Conventional stents, analytical flow model -- Stent detailed function -- Analytical modeling -- Exact analytical Hagen-Poiseuille solution -- 6.1.2 Finite difference method -- 6.1.3 Square stent designs, analytical and numerical models -- Exact analytical solution for rectangular stents -- Finite difference solution -- Example calculation -- 6.2 General Formulations and Solutions for Complicated Geometries and Arbitrary Fluids -- Recapitulation -- 6.3 Centrifugal Force Influence on Volume Flow Rate -- Straight, closed ducts -- Hagen-Poiseuille flow between planes -- Flow between concentric plates -- Typical calculations -- Flows in closed curved ducts -- 6.4 Unsteady Pulsatile Flow Model for Complicated Duct Cross-Sections -- 6.5 Bifurcated Conduits with Newtonian Flow in Clogged Geometric Cross-sections -- 6.6 Modeling Axial Variations with Pseudo-Three- Dimensional Method -- 6.7 Modeling Transient Wall Effects -- 6.8 Steady Bifurcated Newtonian Flows With Arbitrary Clogs, A Numerical Example -- 6.8.1 Motivating questions and examples -- 6.8.2 Detailed single-element pipe flow solutions -- 6.8.3 Method for bifurcated systems with clogged piping elements -- 6.8.4. Effective radius flow properties -- 6.8.5 Discussion and conclusions -- 6.9 References -- Chapter 7 Tissue Properties from Steady and Transient Syringe Pressure Analysis -- 7.1 Importance of Compressibility, Permeability, Anisotropy, Pressure and Porosity in Medical Applications -- Compressibility -- Permeability -- Anisotropy -- Local pressures -- Porosity -- Additional highlights -- 7.2 Geoscience Perspectives and Background -- 7.3 Formation Testing in Petroleum Well Logging -- 7.4 Operational Guidelines to Biofluids Pressure Testing -- Intelligent syringe concepts.
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Drawdown-Buildup Method -- Example 4. Forward and Inverse Simulations in Transversely Isotropic Media Using Drawdown and Phase Delay Method -- Example 5. Forward and Inverse Simulations in Transversely Isotropic Media for Flows with Nonzero Dip Angle -- 7.6.9 Application to Subcutaneous Injection Yorkshire Swine Laboratory Data. Experimental Details.

Sommario/riassunto

This book, 'Biofluids: Modeling Methods, Perspectives and Solutions' by Wilson C. Chin and Jamie A. Chin, explores the complex field of biofluid dynamics, focusing on the modeling and analysis of fluid flow within biological systems such as circulatory systems. It delves into the physics of fluid flow in biological conduits, addressing both Newtonian and non-Newtonian fluid dynamics. The text provides insights into mathematical models, differential equations, and numerical methods applicable to biofluids. Key topics include conduit and Darcy flow modeling, rheology, pressure diffusion in porous media, and the effect of non-Newtonian fluids in circular conduits. The book is aimed at students, researchers, and professionals in bioengineering, medical physics, and related fields, offering a comprehensive overview of biofluid dynamics with practical applications and advanced computational methods.

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