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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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