



The Physics of Cerebrovascular Diseases: Biophysical Mechanisms of Development, Diagnosis and Therapy (Biological and Medical Physics, Biomedical Engineering)

By George J. Hademenos, Tarik F. Massoud

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A review of our current understanding of the physical phenomena associated with the flow of blood through the brain, applying these concepts to the physiological and medical aspects of cerebrovascular disease so as to be useful to both the scientist and the clinician. Specifically the book discusses the physical bases for the development of cerebrovascular disease and for its clinical consequences; specific current and possible future therapies; experimental, clinical, and computational techniques used to investigate cerebrovascular disease; blood dynamics and its role; imaging methods used in the diagnosis and management of cerebrovascular disease. Intended as a one- or two-semester course in biophysics, biomedical engineering or medical physics, this is also of interest to medical students and interns in neurology and cardiology, and provides a useful overview of current practice for researchers and clinicians.

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