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Computational hemodynamics: theory, modelling and

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Computational hemodynamics in cerebral aneurysms: Robustness of rupture risk indicators under di erent model assumptions ... 1.2 Theory and modelling of aneurysm development . . . . . .2 2 Modelling of cerebral blood ... The potential causality of hemodynamics in cerebral aneurysm development, and eventual rupture, are reviewed by Meng et ...

Computational hemodynamics in cerebral aneurysms

Computational hemodynamics : theory, modelling and applications. [Jiyuan Tu; Kiao Inthavong; Kelvin K L Wong] -- This book discusses geometric and mathematical models that can be used to study fluid and structural mechanics in the cardiovascular system.

Computational hemodynamics : theory, modelling and

The simulation is carried out using the heart model shown in Fig. 6, and the surface body of the model is discretized with about 53,000 triangular elements. For the flow simulation, the model is immersed into the Cartesian volume of 11.4 cm ?9.5cm ?15.8 cm and this volume is discretized into 384?256?256 cells.

Computational Modeling of Cardiac Hemodynamics: Current

Computational Hemodynamics – Theory, Modelling and Applications. This book presents elementary knowledge on the physiology of the cardiovascular system; basic knowledge and techniques on reconstructing geometric models from medical imaging; mathematics that describe fluid and structural mechanics, and corresponding numerical/computational methods to solve its equations and problems.