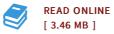




Blood Flow Analysis through Blocked Artery

By Jamshed, Shamoon / Usman, Humaira

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Numerical Simulations using Fluent 6.2 | In this study, different turbulence models like k-epsilon and k-omega SST model are tested by comparing them against experimental data given by Deshpande and Giddens 1976. The stenosed geometry of 75 % area reduction is used for comparison. CFD code FLUENT 6.2 is used to solve the flow equations and a steady state flow with 2D axi-symmetric geometry is considered with Reynolds number of 5000. For lamnar flow in CCA, Reynolds numbers 50, 100 and 200 were used and the results were compared with the experimental data as given by Ahmed Giddens and Mabon. The results for laminar study were also obtained by varying the degree of occlusion i.e. 75 %, 56 % and two geometries with 89% area reduction. The models were named as M0, M1, M2 and M3. In the study, we found that model M3 is highly severe stenosis and a medical scanned image approximating this kind of geometry must be seriously examined. | Format: Paperback | Language/Sprache: english | 165 gr | 220x150x6 mm | 112 pp.



Reviews

Comprehensive manual! Its this sort of excellent read through. We have read through and i also am certain that i will going to read through once more again later on. You wont sense monotony at at any time of your time (that's what catalogs are for regarding in the event you question me). -- **Prof. Geraldine Monahan**

Extensive guideline! Its this kind of very good study. It really is full of knowledge and wisdom I discovered this book from my i and dad encouraged this publication to understand. -- Mr. Jerry Littel

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