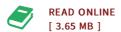




Patient-specific Modeling of the Cardiovascular System: Technology-driven Personalized Medicine (Hardback)

By Roy C. P. Kerckhoffs

Springer-Verlag New York Inc., United States, 2010. Hardback. Book Condition: New. 234 x 157 mm. Language: English . Brand New Book. Peter Hunter Computational physiology for the cardiovascular system is entering a new and exciting phase of clinical application. Biophysically based models of the human heart and circulation, based on patient-specific anatomy but also informed by po- lation atlases and incorporating a great deal of mechanistic understanding at the cell, tissue, and organ levels, offer the prospect of evidence-based diagnosis and treatment of cardiovascular disease. The clinical value of patient-specific modeling is well illustrated in application areas where model-based interpretation of clinical images allows a more precise analysis of disease processes than can otherwise be achieved. For example, Chap. 6 in this volume, by Speelman et al. , deals with the very difficult problem of trying to predict whether and when an abdominal aortic aneurysm might burst. This requires automated segmentation of the vascular geometry from magnetic re- nance images and finite element analysis of wall stress using large deformation elasticity theory applied to the geometric model created from the segmentation. The time-varying normal and shear stress acting on the arterial wall is estimated from the arterial pressure and flow...



Reviews

Completely among the best pdf I actually have possibly read through. It is probably the most awesome pdf we have read. You wont really feel monotony at whenever you want of your time (that's what catalogs are for about in the event you ask me).

-- Prof. Martine Lesch

This kind of book is every little thing and made me searching ahead of time plus more. This is certainly for anyone who statte that there was not a well worth reading through. Its been developed in an remarkably straightforward way in fact it is simply following i finished reading this pdf in which really modified me, alter the way i really believe.

-- Ivy Pollich

Relevant Books



Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications.

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book *****
Print on Demand *****. This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the...



Games with Books: 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade

Book Condition: Brand New. Book Condition: Brand New.



Games with Books: Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade

Book Condition: Brand New. Book Condition: Brand New.



History of the Town of Sutton Massachusetts from 1704 to 1876

 $Create space, United States, 2015.\ Paperback.\ Book\ Condition: New.\ annotated\ edition.\ 229\ x\ 152\ mm.\ Language: English\ .\ Brand\ New\ Book\ ****** Print\ on\ Demand\ *****. This\ version\ of\ the\ History\ of\ the\ Town\ of\ Sutton\ Massachusetts\ from\ 1704\ to\ 1876\ is\ a\ labor...$



Hitler's Exiles: Personal Stories of the Flight from Nazi Germany to America

New Press. Hardcover. Book Condition: New. 1565843940 Never Read-12+ year old Hardcover book with dust jacket-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good Copy- I ship FAST with FREE tracking!! *...



TJ new concept of the Preschool Quality Education Engineering: new happy learning young children (3-5 years old) daily learning book Intermediate (2)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date: 2005-09-01 Publisher: Chinese children before making Reading: All books are the Youth Preemployment Training software download generated pictures...