

REFERENCES

- Ai and Vafai. (2006). *A coupling model for macromolecule transport in a stenosed arterial wall. Int. J. Heat and Mass Transfer*, 49, 1568-1591.
- Bergel. (1961). *The dynamic elastic properties of the arterial wall. The Journal of Physiology*, 156, 458-469.
- Bergel. (1961). *The static elastic properties of the arterial wall. The Journal of Physiology*, 156, 445-457.
- Boresi and Chong. (1961). *Elasticity in engineering mechanics. A Wily-Interscience publication, USA*, 2nd Ed.
- Carroll. (1999). *A primer for finite elements in elastic structures. Wiley&Sons, USA*.
- Chapra and Canale. (2010). *Numerical methods for engineers. McGraw-Hill Higher Education*.
- Danpinid. (2010). *Stress-strain relationship of aortic wall. Ph.D. Thesis, Chiang Mai University*.
- Danpinid, Luo, Vappou, Terdtoon and Konofagou. (2010). *In vivo characterization of the aortic wall stress-strain relationship. Ultrasonics*, 50 No. 7, 654-65.
- Delfino, Stergiopulos, Moore and Meister. (1997). *Residual strain effects on the stress field in a thick wall finite element model of the human carotid bifurcation. J. Biomechanics*, 30, 777-786.
- Franceschini, Bigoni, Regitnig and Holzapfel. (2006). *Brain tissue deforms similarly to filled elastomer and follows consolidation theory. J. The Mechanics and Physics of Solid*, 54, 2592-2620.

- Fung. (1969). *A first course in continuum mechanics*. Prentice-Hall.
- Fung. (1990). *Biomechanics: motion, flow, stress and growth*. Springer-Verleg.
- Fung. (1993). *Biomechanics: mechanical properties of living tissues*. Springer-Verleg.
- Fung. (1994). *A first course in continuum mechanics: for physical and biological engineers and scientists*. Prentice-Hall.
- Fung. (1997). *Biomechanics: circulation*. Springer.
- Fung. (2001). *Classical and computational solid mechanics*. World Scientific.
- Guo and Kassab. (2003). *Variation of mechanical properties along the length of the aorta in C57bl/6 mice*. *Am. J. Physiol. Heart Circ. Physiol.*, 285, 2614-2622.
- Hall and Wollam. (1982). *Systolic hypertension*. Year Book Medical Publishers Inc.
- Hardt, Just, Bekeredian, Kübler, Hartmut, Kirchheim and Kuecherer. (1999). *Aortic pressure-diameter relationship assessed by intravascular ultrasound: experimental validation in dogs*. *Am. J. Physiol. Heart Circ. Physiol.*, 27, H1078-H1085.
- Hertzberg. (1983). *Deformation and fracture mechanics of engineering materials*. Wiley.
- Holzappel. (2001). *Biomechanics of soft tissue*. Lemaitre handbook of material behavior models, Academic Press, 1057-1071.
- Holzappel, Gasser and Ogden. (2004). *Comparison of a multi-layer structural model for arterial walls with a Fung-type model, and issues of material stability*. *Transactions of the ASME*, 264-275.
- Holzappel, Gasser and Ogden. (2000). *A new constitutive framework for arterial wall mechanics and a comparative study of material models*. *J. Elasticity*, 61, 1-48.

- Holzapfel, Gasser and Ogden. (2005). *Comparison of a structural model with a Fung-type model using a carotid artery: issues of material stability. Proceedings of the 1st GAMM Seminar on Continuum Biomechanics*, No. II-14, 79-89.
- Holzapfel, Sommer and Regitnig. (2004). *Anisotropic mechanical properties of tissue components in human atherosclerotic plaques. J. Biomechanical Engineering*, 126, 657-665.
- Holzapfel, Sommer, Gasser and Regitnig. (2005). *Determination of layer-specific mechanical properties of human coronary arteries with nonatherosclerotic intimal thickening and related constitutive modeling. Am J Physiol Heart Circ Physiol*, 289, H2048-H2058.
- Holzapfel, Stadler and Schulze-Bauer. (2002). *A layer-specific three-dimensional model for the simulation of balloon angioplasty using magnetic resonance imaging and mechanical testing. Annals of Biomedical Engineering*, 30, 753-767.
- Holzapfel. (2001). *Handbook of materials behavior models: nonlinear models and properties. Academic Press*, 1057-1071.
- Holzapfel. (2009). *Arterial tissue in health and disease: experimental data, collagen-based modeling and simulation, including aortic dissection, biomechanical modeling at the molecular, cellular and tissue levels. Springer*, 259-343.
- Humphrey and Delange. (2004). *An introduction to biomechanics solid and fluid, analysis and design. Springer*.
- Humphrey. (2002). *Cardiovascular solid mechanics: cells, tissues, and organs. Springer-Verlag*.

Kana Fujikura, Luo Jianwen, Viktor Gamarnik, Mathieu Pernot, Royd Fukumoto, Martin David Tilson and Elisa E. Konofagou. (2007). *A novel noninvasive technique for pulse-wave imaging and characterization of clinically-significant vascular mechanical properties in vivo. Ultrasonic imaging* , 29, 137-154.

Khakpour and Vafai. (2008). *Critical assessment of arterial transport models. Int. J. Heat and Mass Transfer*, 51, 807-822.

Khamdaeng, Terdtoon, Sakulchangsattajai and Kammuang-lue. (2011). *The carotid arterial stiffness for the aortic stiffness determination of the human in vivo. The Third International Conference on Science, Technology and Innovation for Sustainable Well-Being (STISWB III)*.

Khamdaengyodtai, Khamdaeng, Sakulchangsattajai, Kammuang-lue and Terdtoon. (2012). *Stresses and Strains Distributions in Three-Dimension Three-Layer Abdominal Aortic Wall Based on in vivo Ultrasound Imaging. Journal of Science and Technology Mahasarakham University*, 31(5).

Khamdaengyodtai, Sakulchangsattajai and Terdtoon. (2010). *Stress-strain analysis of abdominal aortic wall: a case of 3D geometry simulation. Energy research Journal* , 1 No. 2, 165-170.

Khamdaengyodtai, Terdtoon and Sakulchang-sattajai. (2010). *A Comparative Study of Stress and Strain Analysis of Murine Abdominal Aortic Wall Based on Ultrasound Data: Cases of Thin Wall and Thick Wall. The second International Conference on Science, Technology and Innovation for Sustainable Well-Being*.

Logan. (2007). *A first course in the finite element method. Thomson Canada, 4th Ed.*

- Luo and Konofagou. (2010). *A fast normalized cross-correlation calculation method for motion estimation. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, 57 No. 6, 1347-1357.
- Mohan and Melvin. (1982). *Failure properties of passive human aortic tissue. I- uniaxial tension tests. J. Biomechanics*, 15 No. 11, 887-902.
- Mohan and Melvin. (1983). *Failure properties of passive human aortic tissue. II- biaxial tension tests. J. Biomechanics*, 16 No. 1, 31-44.
- Pagani, Mirsky, Baig, Manders, Kerkhof and Vatner. (1979). *Effects of age on aortic pressure-diameter and elastic stiffness-stress relationships in unanesthetized sheep. Circulation Research*, 44, 420-429.
- Payne, Teh, Webb and Maxwell. (2007). *A generalized arterial transfer function derived at rest underestimates augmentation of central pressure after exercise. Journal of Hypertension*, 25, 2266-2272.
- Peterson, Jensen and Parnell. (1960). *Mechanical properties of arteries in vivo. Circulation Research*, 8, 622-639.
- Shigley and Mischke. (2001). *Mechanical engineering design. McGraw-Hill, 6th Ed.*, 93-174.
- Silver, Snowhill and Foran. (2003). *Mechanical behavior of vessel wall: a comparative study of aorta, vena cava and carotid artery. Ann. Biomed. Eng.*, 31, 793-803.
- Sokolis. (2010). *Strain-energy function and three-dimensional stress distribution in esophageal biomechanics. J. Biomechanics*, 43, 2753-2764.

Sommer, Gasser, Regitnig, Auer and Holzapfel. (2008). *Dissection properties of the human aortic media: An experimental study. J. Biomechanical Engineering*, 130, 021007-1-12.

Sommer. (2010). *Mechanical properties of healthy and diseased human arteries. Monographic Series TU Graz, Computer engineering and science*, 7.

Technical support group in Bureau of Non Communicable Disease THAILAND. (2011). *Situation of chronic non-communicable diseases and injuries (Whole country)*, 1-11.

von Maltzahn, Warriyar and Keitzer. (1984). *Experimental measurements of elastic properties of media and adventitia of bovine carotid arteries. J. Biomechanics*, 17 No. 11, 839-847.

Yang and Vafai. (2006). *Modeling of low-density lipoprotein (LDL) transport in the artery-effects of hypertension. Int. J. Heat and Mass Transfer*, 49, 850-867.

Yang and Vafai. (2008). *Low-density lipoprotein (LDL) transport in an artery – A simplified analytical solution. Int. J. Heat and Mass Transfer*, 51, 497-505.

Zhao, Day, Yuan and Gregersen. (2002). *Regional arterial stress-strain distributions referenced to the zero-stress state in the rat. Am. J. Physiol. Heart Circ. Physiol.*, 282, 622-629.

Zhao, Field, Digges, Richens. (2008). *Blunt trauma and acute aortic syndrome: a three layer finite-element model of the aortic wall. European Journal of Cardio-thoracic Surgery*, 34, 623-629.

Zohdi, Holzapfel and Berger. (2004). *A phenomenological model for atherosclerotic plaque growth and rupture. J. Theoretical Biology*, 227, 437-443.