**CURRICULUM VITAE**

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| **Name:****E-Mail:** | Teong Tanttan@memphis.edu |  |
| **Education:** | Ph.D., Engineering Sc & Mechanics, Iowa State University, 1984 |
|  | M.Sc.E, Mechanical Engineering, Univ of New Brunswick, CA, 1981 |
|  | M.Sc.E , Mechanical Engineering, Univ of New Brunswick, CA, 1979 | 1979 |
| **Area of Specialty:** | Rigid-Body Dynamics, Mechanical Controls, Mechanical Vibrations, Engineering Optimization |  |
| **Academic Experience:** | Associate Professor. Mechanical Engineering, Univ. of Memphis, 1990 - present |  |
| **Other Experience:** | Assistant Professor. Mechanical Engineering, Univ. of Memphis, 1984 - 90 |  |

**Funded Research:**

* 2008-09: $8,069, Life Prediction of Machines by Condition Monitoring, Kellogg’s, Teong Tan (Co-PI).
* 2000: $10,000, Non-Destructive Evaluation of Spot-Weld Quality Control, MTD, Teong Tan (PI).
* 1999: $5,000, Development of Animated Graphical Interactive Virtual Experiments as Teaching Supplements Using Web Browser Java Programs, Faculty Research Grant, TAF, Teong Tan (PI)
* 1992: $12,000, The Golf Cub/Ball Dynamics, Teong Tan, (PI).
* 1989: $3,388, Shock Attenuation in Insole Materials, Schering-Plough, Teong Tan (PI).
* 1988: $1,990, Rotational Speed Control Governor, Teledyne Total Power, Inc., Teong Tan (PI).
* 1986-87: $14,020, Evaluation and Characterization of Schock Dissipation in Insole Materials for Walking Shoes, Schering-Plough, Teong Tan (PI).

**Refereed Journal Publications:**

Gang Qi, W. Paul Mouchon, Teong E. Tan, How much can a vibrational diagnostic tool reveal in total hip arthroplasty loosening?, Clinical Biomechanics, March 2003

Winfield, D.C. and Tan, T.E., “Optimization of the Clubface Shape of a Golf Driver to Minimize Dispersion of Off-Center Shots,” International Journal of Computer & Structures, Vol. 58, No. 6, pp. 1217-1224, 1996.

Winfield, D.C. and T.E. Tan, “Optimization of Clubhead Loft and Swing Elevation Angles for Maximum Distance of a Golf Drive,” International Journal of Computer & Structures, Vol. 53, No. 1, pp. 19-25, 1994.

Lewis, G., T.E. Tan, & Y.S. Shiue, “Characterization of the Performance of Shoe Insert Materials,” Journal of American Podiatric Medical Association, Vol. 81, No. 8, pp. 418-424, 1991

**Refereed Conference Publications:**

S. Wayne, G. Qi, T. Tan, “Observations of Sliding Contact Using Acoustic Emission and Vibration Signals,” AEWG-51, International Symposium on AE, Oct. 2008.

T. Tan, R. Pydimarri, G. Qi, “A Modal Analysis Study of Interface Failure of THA Femoral Component,” Proceedings of the IMAC-XXIII: A Conference & Exposition on Structural Dynamics, January 31 – February 3, 2005, Orlando, Florida, pp. 354-363.

Shiue, Y.S. and T.E. Tan, “A Study of Optimal Equivalent Characteristics of Insole Materials,” Dynamics and Vibration of Time-Varying Systems and Structures, DE-Vol. 56, ASME 1993, pp. 177-185.

Komistek, R.D., T.E. Tan, and M.N. Burton, “Mathematical Modeling of the Human Arm: An Aid in the Investigation of the Role of Muscle Forces in the Development of Lateral Epicondylities - Static Analysis,” 11th Southern Biomedical Engineering Conference, pp. 174-176, 1992.

Komistek, R.D., T.E. Tan, and M.N. Burton, “Mathematical Modeling of the Human Arm: An Aid in the Investigation of the Role of Muscle Forces in the Development of Lateral Epicondylities - Quasi-Static Analysis,” 11th Southern Biomedical Engineering Conference, pp. 177-180, 1992.

Komistek, R.D., T.E. Tan, and M.N. Burton, “Mathematical Modeling of the Human Arm: An Aid in the Investigation of the Role of Muscle Forces in the Development of Lateral Epicondylities - Dynamic Analysis,” 11th Southern Biomedical Engineering Conference, pp. 181-183, 1992.

T.E. Tan & Y.S. Shiue, , “Hybrid Synthesis of Mathematical Model Equivalence for Viscoelastice Insole Materials,” Computational Methods and Experimental Measurements V, Computational Mechanics Publications, pp. 273-284, 1991.

Tan, T.E., & J.C. Huston, , “A Full-Suspension Three-Wheeled ATV System: Part I – Modeling and Parameter Values,” SAE Trans. 95, pp. 1.1116-1.1124, 1986.

Tan, T.E., & J.C. Huston, , “A Full-Suspension Three-Wheeled ATV System: Part II – Roll, Pitch, and Vertical Motions,” SAE Trans. 95, pp. 1.1125-1.1135, 1986.

Tan, T.E., & J.C. Huston, , “Three-Wheeled ATV System – A No-Suspension Rigid Rider System, Part I: Modeling and Parameter Values,” SAE Trans. 93, pp. 4.806-4.817, 1985.

Tan, T.E., & J.C. Huston, , “Three-Wheeled ATV System – A No-Suspension Rigid Rider System, Part II: Applications – Handling and Ride,” SAE Trans. 93, pp. 4.818-4.824, 1985.

**Non-Refereed Publications & Presentations:**

John Hochstein, T. Tan, W.S. Janna, Jeffrey Marchetta, Tommy Jamison, Bruce Shrader, Michael Bilderbeck, “A Useful Intersection: The Balanced Scorecard and EC2000,” Proceedings of the 2004 American Society for Engineering Education Annual Conference & Exposition, 2004.

Tan, T., “A Brief Look at Golf Swing Signatures,” Poster presentation at the 2nd World Scientific Congress of Golf in St. Andrews, Scotland, July 1994.

Tan, T.E., “Three-Dimensional Tire/Terrain Interface for Computer Simulation of Terra Vehicle Systems,” Proceedings of the 5th Pacific Conference on Automotive Engineering, Vol. 2, International Academic Publishers, pp. 268.1-268.9, 1989.