

Vita

Shu-Jen Steven Tsai was born in Taipei Taiwan by Wen-Te Tsai and Chiung-wei Chen. He received his B.S. and M.S. both in Mechanical Engineering from National Central University (Chungli Taiwan, 1995) and Carnegie Mellon University (Pittsburgh PA, U.S.A., 1998), respectively. He served as a corporal in the military service from 1995 to 1997 in Taoyuan, Taiwan. Before he joined Virginia Tech as a Master student in the department of Electrical Engineering in the fall of 2001, he worked as a design engineer in Quantum Corporation (Shrewsbury MA, U.S.A.). Upon finishing his M.S. in Electrical Engineering at Virginia Tech in December 2002, he will be a Ph.D. student in the same department starting January 2003.

He is currently a student member of IEEE-PES, and a member of Phi-Kappa-Phi Honor Society. His research interests include: partial discharge analysis and modeling, power quality, computer application in the power system.

Publications since joined Virginia Tech:

S.-J. S. Tsai, B. Yu, L. Chen, A. Wang, Y. Liu and B. Ward. "Analysis of On-site Transformer Partial Discharge Measurement from Fiber Optic Acoustic Sensors," in *EPRI Substation Equipment Diagnostics Conference*, New Orleans, U.S.A., 2003. To appear.

L. Chen, S.-J. S. Tsai, B. Qiu, Y. Liu, B. Yu, A. Wang, and B. Ward. "Finite Element Simulation and Theoretical Analysis of the Partial Discharge Acoustic Wave Propagation inside Power Transformers," in *EPRI Substation Equipment Diagnostics Conference*, New Orleans, U.S.A., 2003. To appear.

S.-J. Tsai, L. Chen, and Y. Liu. "Northfleet West SGT3A 500MVA, 400kV/275kV Transformer On-Site PD Measurement Signal Processing," Virginia Tech, Blacksburg. July, 31 2002. Technical report submitted to Electric Power Research Institute (EPRI).

L. Chen, S.-J. Tsai, B. Qiu and Y. Liu. "Computer Simulation and Theoretical Analysis of the Partial Discharge Acoustic Wave Propagation in Power Transformers," Virginia Tech, Blacksburg. July, 31 2002. Technical report submitted to Electric Power Research Institute (EPRI).

X.-G. Li, D.-M. Xiao, S.-J. Tsai, and Y. Liu, "Electron Ionization, Attachment and Detachment Coefficients in SF₆ and Xe Gas Mixtures," in *2002 IEEE Power Engineering Society Summer Meeting*, Chicago, U.S.A., 2002.