

REFERENCES

- Acker, B., Darenburg, W., and Gall, H., "Active Suspension for Passenger Cars," *Proceedings of the 11th Annual IAVSD Symposium*, 1991.
- A.G. Thompson, "An active suspension with optimal linear state feedback," *Vehicle System Dynamics*, Vol. 5, pp. 187–203, 1976.
- Ahmadian, M., "Ride Evaluation of a Class 8 Truck with Semi-Active Suspensions," *Advanced Automotive Technologies, ASME Dynamic Systems and Control Division, DSC*, Vol. 52, New York, NY, p. 21-26, 1993.
- Ahmadian, M., "Hybrid Semiactive Control for Secondary Suspension Applications," *ASME Dynamic Systems and Control Division, DSC*, Vol. 61, Fairfield, NJ, p. 743-750, 1997.
- Ahmadian, M., "Design and Development of Magneto Rheological Dampers for Bicycle Suspensions," *ASME Dynamic Systems & Control Division, DSC*, Vol. 67, p. 737-741, 1999.
- Ahmadian, M., Poynor, J. C., Gooch, J. M., "Application of Magneto Rheological Dampers for Controlling Shock Loading," *ASME Dynamics Systems & Control Division, DSC*, Vol. 67, p. 731-735, 1999.
- Akatsu, Y., Fukushima, N., Takahashi, K., Satoh, M., Kawarazaki, Y., "Active Suspension Employing an Electrohydraulic Pressure Control System," *Proceedings-Society of Automotive Engineers, Warrendale, PA*, p. 949-959. 1990
- Alleyne, A., Neuhaus, P. D., Hedrick, J. K., "Application of Nonlinear Control Theory to Electronically Controlled Suspensions," *Vehicle System Dynamics*, Vol. 22, No. 5-6, p. 309-320, 1993.
- Appleyard M. and Wellstead P.E. Active Suspension: some background. *IEEE Proc.Control Theory Application*. 142(2): 123-128 (1995)

- Choi, S. B., Lee, B. K., Nam, M. H., Cheong, C. C., “Vibration Control of a MR Seat Damper for Commercial Vehicles,” *Proceedings of SPIE*, Vol. 3985, p. 491-496, 2000.
- Choi, H.H., and Kim, W.K. 2000. Vibration control of a semi-active suspension featuring electrorheological fluids dampers. *Journal of Sound and Vibration*. **21**(3): 27-35
- Crolla, D.A. 1988. Theoretical comparisons of various active suspension systems in terms of performance and power requirements. *Proceedings of IMECE Conference on Advanced Suspensions*. **420**: 1-9.
- D. Karnopp, M.J. Crosby, and R.A. Harwood, Vibration control using semi-active force generators, *Journal of Engineering for Industry*, 96, 619–626, 1974.
- Giua, A., Savastano, A., Seatzu, C., Usai, G., “Approximation of an Optimal Gain Switching Active Law with a Semi-Active Suspension,” *Proceedings of the IEEE Conference on Control Applications*, Vol. 1, Piscataway, NJ, p. 248-252, 1998.
- Giua, A., Seatzu, C., Usai, G., “Semi-Active Suspension Design with an Optimal Gain Switching Target,” *Vehicle System Dynamics*, Vol. 31, No. 4, p. 213-232, 1999.
- Hac, A., Youn, I., “Optimal Semi-Active Suspension with Preview Based on a Quarter-Car Model,” *Journal of Vibration & Acoustics-Transactions of the ASME*, Vol. 114, No. 1, p. 84-92, January 1992.
- Hennecke, D., Baier, P., Jordan, B., Walek, E., “EDC III—The New Variable Damper System for BMW’s Top Models—A Further Development of our Adaptive, Frequency-Dependent Damper Control,” *SAE Technical Paper Series*, No. 900662, Warrendale, PA, 1990.
- Hong, K. S., Sohn, H. C. and Hedrick, J. K. 2002. Modified skyhook control of semi active suspensions: a new model, gain scheduling, and hardware-in-the-loop tuning. *Journal of Dynamic Systems, Measurement, and Control*. **24**: 159-167. 2002

- Hrovat, D., Hubbard, M., "Optimum Vehicle Suspensions Minimizing RMS Rattlespace, Sprung-Mass Acceleration and Jerk," American Society of Mechanical Engineers, ASME Paper 81-WA/DSC-23, p. 15-20, 1981.
- Huisman, R. G. M., Veldpauw, F. E., Van Heck, J. G. A. M., Kok, J. J., "Preview Estimation and Control for Semi-Active Suspensions," Vehicle System Dynamics, Vol. 22, No. 5-6, p. 335-346, 1993.
- Ikenaga, S., Lewis, F. L., Davis, L., Campos, J., Evans, M., Scully, S., "Active Suspension Control Using a Novel Strut and Active Filtered Feedback: Design and Implementation," Proceedings of the 1999 IEEE Conference on Control Applications, Vol. 2, p. 1502-1508, 1999.
- Ikenaga, S., Lewis, F. L., Campos, J., Davis, L., "Active Suspension Control of Ground Vehicle Based on a Full-Vehicle Model," Proceedings of the 2000 IEEE American Control Conference, Vol. 6, Piscataway, NJ, p. 4019-4024, 2000.
- Lee, H. S., Choi, S. B., "Control and Response Characteristics of a Magneto-Rheological Fluid Damper for Passenger Vehicles," Journal of Intelligent Material Systems & Structures, Vol. 11, No. 1, p. 80-87, January 2000.
- Lieh, J., "Modeling and Simulation of an Elastic Vehicle with Semi-Active Suspensions," Advanced Automotive Technologies-ASME Design Engineering Division, DE, Vol. 40, New York, NY, p. 325-326, 1991.
- Lieh, J., Li, W. J., "Adaptive Fuzzy Control of Vehicle Semi-Active Suspensions," ASME Dynamic Systems and Control Division, DSC, Vol. 61, Fairfield, NJ, p. 293-297, 1997.
- Pare, C. A., "Experimental Evaluation of Semiactive Magneto-Rheological Suspensions for Passenger Vehicles," master's thesis, Blacksburg, VA: Virginia Tech, p. 28-29, May 1998.

- Peel, D. J., Stanway, R., Bullough, W. A., "Design Optimization of a Controllable Vibration Damper for Vehicle Suspension Applications," *Active Control of Vibration and Noise*, ASME, Design Engineering Division, DE, Vol. 93, New York, NY, p. 205-214, 1996.
- Shames, I.H. and Cozzarelli, F.A. (1992). *Elastic and Inelastic Stress Analysis*. Prentice Hall, Englewood Cliffs, New Jersey, pp. 120-122.
- Simon, D. E., "Experimental Evaluation of Semiactive Magnetorheological Primary Suspensions for Heavy Truck Applications," master's thesis, Blacksburg, VA: Virginia Tech, p. 5, September 1998.
- Sims, N. D., Stanway, R., Johnson, A. R., Yang, J. S., "Vibration Isolation Using a Magneto-Rheological Damper in the Squeeze-Flow Mode," *Proceedings of SPIE*, Vol. 3668, No. 1, p. 520-526, 1999.
- Sohn, H. C., Hong, K. S., Hedrick, J. K., "Semi-Active Control of the Macpherson Suspension System: Hardware-in-the-Loop Simulations," *Proceedings of the 2000 IEEE International Conference on Control Applications*, Vol. 1, Piscataway, NJ, p. 982-987, 2000.
- Song, X., "Design of Adaptive Vibration Control Systems with Application of Magneto-Rheological Dampers," PhD. Dissertation, Blacksburg, VA: Virginia Tech, pp. 172, February 1999.
- Stanway, R. Sproston, J.L. and Stevens, N.G. (1985). "Non-linear Identification of an Electrorheological Vibration Damper." *IFAC Identification and System Parameter Estimation*, pp. 195–200.
- Stanway, R., Sproston, J.L. and Stevens, N.G. (1987). "Non-linear Modelling of an Electro-rheological Vibration Damper." *J. Electrostatics*, Vol. 20, pp. 167–184.
- Williams, R.A. (1994). Electronically controlled automotive suspensions. *Computing & Control Engineering Journal*. **5**(3): 143-148.