

References

1. Ressler, N. W., Patterson, D. J., Soltis, M. W., “Integrated Chassis and Suspension Controls – Present and Future World of Chassis Electronic Controls”, *International Congress on Transportation Electronics Proceedings (IEEE Cat. No.88CH2533-8)*, pp. 213-17, 1988.
2. Gustafsson, F., “Estimation and Change Detection of Tire – Road Friction Using the Wheel Slip”, *Proceedings of the 1996 IEEE International Symposium on Computer-Aided Control System Design*, Dearborn, MI, September 15-18, 1996.
3. Leih, J., “Semiactive Damping Control of Vibrations in Automobile”, *Transactions of the ASME Journal of Vibrations & Acoustics*, Volume 115, July 1993.
4. Yu, G., Sethi, I. K., “Road-Following with Continuous Learning”, *Proceedings of the Intelligent Vehicles '95. Symposium (Cat. No.95TH8132)*, pp. 412-417, 1995.
5. Werner, M., Engels, C., “A Nonlinear Approach to Vehicle Guidance”, *Proceedings of the Intelligent Vehicles '95. Symposium (Cat. No.95TH8132)*, pp. 136-140, 1995.
6. Freund, E. and Mayr, R., “Nonlinear Path Control in Automated Vehicle Guidance”, *IEEE Transactions on Robotics and Automation*, Volume 13, No. 1, February 1997.
7. Maalej, A. Y., Guenther, D. A. and Ellis, J. R., “Experimental Development of Tyre Force and Moment Models”, *International Journal of Vehicle Design*, Volume 10, Number 1, pp. 34-50, 1989.
8. <http://www.adams.com/>

9. Yi, K, and Hedrick, K., "Active and Semi-Active Heavy Truck Suspensions to Reduce Pavement Damage," *SAE Paper, No. 892486*, November 1989.
10. Clark, S. K., *Mechanics of Pneumatic Tires*, U. S. Department of Transportation, National Highway Traffic Safety Administration, Washington DC, 1981.
11. Hatwal, H. and Mikulcik, E. C., "Some Inverse Solutions to an Automobile Path Tracking Problem with Input Control of Steering and Brakes", *Vehicle System Dynamics*, Volume 15(1986), pp. 61-71, 1986.
12. Hendriks, J. P. M., Meijlink, J. J. J. and Kriens, R. F. C., "Application of Optimal Control Theory to Inverse Simulation of Car Handling", *Vehicle System Dynamics*, Volume 26(1996), pp. 449-461, 1996.
13. Arora, J. S., *Introduction to Optimum Design*, McGraw-Hill, Inc., New York, 1989.
14. Smith, D. E. and Starkey, J. M., "Effects of Model Complexity on the Performance of Automated Vehicle Steering Controllers: Model Development, Validation and Comparison", *Vehicle System Dynamics*, Volume 24(1995), pp. 163-181, 1995.
15. Chapra, S. C. and Canale, R. P., *Numerical Methods for Engineers*, Second Edition, McGraw-Hill Inc., New York, 1988.
16. Niehaus, A. and Stengel, R. F., "An Expert System for Automated Highway Driving", *Proceedings of the 1990 American Control Conference (IEEE Cat. No.90CH2896-9)*, Volume. 1, pp. 274-80, 1990.
17. Kageyama, I. And Nozaki, Y., "Control Algorithm for Autonomous Vehicle with Risk Level", *Steps Forward*. Proceedings of the Second World Congress on Intelligent Transport Systems 95 Yokohama, Volume 3, pp. 1284-8, 1995.

18. *Vehicle Dynamics Terminology, SAE J670e*, Society of Automotive Engineers, Inc., Warrendale, PA, July 1976.
19. Milliken, W. F. and Milliken, D. L., *Race Car Vehicle Dynamics*, Society of Automotive Engineers, Warrendale, PA., 1995.
20. Peng, H. and Tomizuka, M., "Lateral Control of Front Wheel Steering Rubber Tire Vehicles", *Program on Advanced Technology for the Highway*, Institute of Transportation Studies University of California at Berkeley, UCB-ITS-PRR-90-5.
21. Goodyear Tire and Rubber Vehicle Specifications
22. Gillespie, T. D., *Fundamentals of Vehicle Dynamics*, Society of Automotive Engineers, Warrendale, PA., 1992.
23. Branch, M. A., Grace, A., *Optimization Toolbox, For Use with Matlab*, Second Printing, Mathworks Inc., 1996.
24. Gen, M., *Genetic Algorithms and Engineering Design*, Wiley & Sons, New York, 1997.
25. Plum, T. and Brodie, J., *Efficient C*, Plum Hall Inc., New York, 1985.
26. Kirk, D. E., *Optimal Control Theory An Introduction*, Prentice Hall Inc., New Jersey, 1970.