7 References

A Policy on Geometric Design of Highways and Streets, (2001), American Association of State Highway and Transportation Officials, Washington, D.C.

A Policy on Geometric Design of Highways and Streets, (2004), American Association of State Highway and Transportation Officials, Washington, D.C.

Abdelwahab, W. M., M. T. Aboul-Ela, and J. F. Morrall, (1998), "Geometric Design Consistency Based on Speed Change on Horizontal Curves." Road Transport Research,

Alexander, G. J. and H. Lunenfeld, (1986), "Driver Expectancy in Highway Design and Traffic Operations." Federal Highway Administration, Washington, D. C.

Andjus, V., and M. Maletin, (1998), "Speeds of Cars on Horizontal Curves." Transportation Research Record 1612, Transportation Research Board, National

Andueza, P. J., (2000), "Mathematical Models of Vehicular Speed on Mountain Roads." Transportation Research Record 1701, Transportation Research Board, Washington D. C.

Baus, R., and Hong, W. (1999). "Investigation and Evaluation of Roadway Rideability Equipment and Specifications." Federal Highway Administration/South Carolina Department of Transportation Report FHWA-SC-99-05, Columbia, South Carolina.

Ben-Arieh, D., Chang, S., Rys, M., Zhang, G., 2004. "Geometric modeling of highways using global positioning system data and B-spline approximation" Journal of Transportation Engineering 130 (5), 632–636.

Benekohal, R. F., P. T. V. Resende and R. L. Orloski, (1992), "The Effects of Police Presence on Speed in a Highway Work Zone: Circulating Marked Police Car Experiment." Report No. FHWA-IL-Ul-240, Federal Highway Administration, Washington, D. C.

Bridle, R. 2002, The Motorway Achievement: Volume 2: Frontiers of Knowledge and Practice. ICE Virtual Library [accessed 12th July 2013]] Available

from: http://books.google.lk/books?id=7Yqxyefv-

VAC&pg=PA145&lpg=PA145&dq=polynomial+approximation+for+highway+align ment&source=bl&ots=Yxn0wrE6-

J&sig=PWOZX1GZySdYw9EeEiLtrlEpVao&hl=en&sa=X&ei=u_deU4yDDaHyiAe a84BQ&ved=0CEYQ6AEwBQ#v=onepage&q=polynomial%20approximation%20f or%20highway%20alignment&f=false

Cafiso, S., G. La Cava, R. Heger, and R. Lamm, (2003), "Integrating Human Factor Evaluation in the Design Process of Roads – A Way to Improve Safety Standards for Rural Roads." CD-ROM. PIARC World Road Congress, Durban, South Africa

Castro, M., P. Mayora, and F. Sanchez, (2005), "Alignment Indices as a Tool to Evaluate"

Chang, S.I., 2004. Global Positioning System data integration and development of a three-dimensional spatial model of the Kansas highway network. FHWA-KS-03-7, Topeka, KS.

Cvitanić,D et al.2012. Methods for ensuring consistency of horizontal alignment elements. Građevinar 64(5), pp. 385-393.

Donnell, E. T., Y. Ni, M. Adolini, and L. Elefteriadou, (2001), "Speed Prediction Model for Trucks on Two-Lane Rural Highways." Transportation Research Record 1751

Econonic Assessment of Road schemes, (2004), The COBA manual, Section 1, Part 5 Elslande, P. V., and L. Faucher-Alberton, (1997), "When Expectancies Become Certainties: A Potential Adverse Effect of Experience." Rothengatter, T., and E. C. Vaya (Eds), Traffic Transport and Psychology: Theory and Application, New York: Pergamon.

European Transport Safety Council, (1995), "Reducing Traffic Injuries Resulting from Excess and Inappropriate Speed." Brussels, Belgium

Federal Highway Administration, 2000. An Investigation of the Use of Global Positioning System (GPS) Technology and its Augmentations With in State and Local Transportation Departments. FHWA-RD-00-093, McLean, VA.



Fildes, B. N., G. Rumbold, and A. Leening, (1991), "Speed Behavior and Drivers' Attitude to Speeding." Monash University Accident Research Center, Victoria, Australia

Fitzpatrick, K., J. D. Bloaschke, C. B. Shanburger, R. A. Krammes, (1995), "Compatibility of Design Speed, Operating Speed and Posted Speed." Texas Transportation Institute, College Station, Texas

Fitzpatrick, K., P. Carlson, M. Brewer, M. D. Wooldridge, (2003), "Design Speed. Operating Speed, and Posted Speed Limit Practice." 2003 Transportation Research Board Annual Meeting. Transportation Research Board, Washington D. C.

Gibreel, G. M., S. M. Easa, I. A. El-Dimeery, (2001). "Prediction of Operating Speed on Three-Dimensional Highway Alignments." Journal of Transportation Engineering, Vol. 127, No. 1

Gleenon J. C., (1987), "Relationship between Safety and Key Highway Features." A Synthesis of prior Research, State of the Art Report 6, Transportation Research Board, Washington D. C.

Haglund, M., and L. Aberg, (2000), "Speed Choice in Relation to Speed Limit and Influences from Other Drivers." Transportation Research Part F: Traffic Psychology and Behaviour, Vol. 3, Issuel

Hauer, E., F. J. Ahlin and J. S. Bowser, (1982), "Speed Enforcement and Speed Choice." Accident Analysis and Prevention, Vol.14, No. 4

Haynes, R., Jones, A.P., Kennedy, V., Harvey, I., Jewell, A., 2007. "District variations in road curvature in England and Wales and their association with road traffic crashes". Environ. Plan. A 39, 1222–1237.

Ibrahim, A. T., and F. L. Hall, (1994), "Effect of Adverse Weather Conditions on Speed-Flow-Occupancy Relationships." Transportation Research Record 1356, Transportation Research Board, Washington D. C.Illinois

Islam, M. N., and P. N. Seneviratne, (1994), "Evaluation of Design Consistency of Two-Lane Rural Highways." Journal of Transportation Engineering, Vol. 64, No. 2

Jessen, D. R., K. S. Schurr, P. T. McCoy, G. Pesti, and R. R. Huff, (2001), "Operating Speed Prediction on Crest Vertical Curves of Rural Two-Lane Highways in Nebraska." Transportation Research Record 1751, Transportation Research Board, Washington, D.C.

Kang, K., (1998), "Ordered Probit Model of the Speed Selection Behavior: Results Based on a Korean Micro Data." Transportation, Traffic Safety and Health – Human Behavior, Fourth International Conference, Tokyo, Japan.

Kelly, L. S., Leslie, T. G., Lynn, D. E. (2002). "Pavement Smoothness Index Relationships: Final Report." Publication No. FHWA-RD-02-057, U.S. Department of Transportation, Federal Highway Administration, Research, Development, and Technology, Turner-Fairbank Highway Research Center.

Krammes, R. A., et al. (1993), "State of the Practice Geometric Design Consistency." DTFH61-91-C-00050, FHWA, US Department of Transportation, Washington, D. C.

Ksaibati, K., McNamera, R., Miley, W., and Armaghani, J. (1999). "Pavement Roughness Data Collection and Utilization." Transportation Research Record 1655, Transportation Research Board, Washington, D.C.

Kyte, M., Z. Khatib, P. Shannon, F. Kitchener, (2000), "Effect of Environmental Factors on Free-Flow Speed." Transportation Research Circular, Transportation Research Board, Washington, D. C.

Lamm, R. and E. Choueiri, (1987), "Recommendations for Evaluating Horizontal Design Consistency Based on Investigations in the State of New York." Transportation Research Record 1122, Transportation Research Board, Washington D. C.

Lamm, R., E.M. Choueiri, and T. Mailaender, (1990), "Comparison of Operating Speeds on Dry and Wet Pavements of Two-Lane Rural Highways." Transportation Research Record 1280, Transportation Research Board, Washington, D.C.

Lamm, R., J. C. Hayward, and J. G. Cargin, (1986), "Comparison of Different Procedures for Evaluating Speed Consistency." Transportation Research Record 1100, Transportation Research Board, Washington D. C.

Liang, W. L., M. Kyte, F. Kitchener, and P. Shannon, (1998), "Effect of Environmental Factors on Driver Speed: A Case Study." Transportation Research Record 1635, Transportation Research Board, Washington, D. C.

Liapis, E. D., B. Psarianos, and E. Kasappi, (2001), "Speed Behavior Analysis at Curved Ramp Sections of Minor Interchanges." Transportation Research Record 1751, Transportation Research Board, Washington, D. C.

McFadden, J. and L. Elefteriadou, (2000), "Evaluating Horizontal Alignment DesignConsistency of Two-Lane Rural Highways." Transportation Research Record 1737, Transportation Research Board, Washington, D. C.

McLean, J., (1978), "Speeds on Curves: Regression Analysis." Internal Report No. 200-3 to the Australian Road Research Board, Australia

McLean, J., (1979), "An Alternative to the Design Speed Concept for Low Speed Alignment Design." Transportation Research Record 702, Transportation Research Board, Washington, D.C.

McLean, J., (1988), "Speeds, Friction Factors, and Alignment Design Standards." Research Report ARR154, Australian Research Board, Victoria, Australia

Misaghi, P. and Y. Hassan, (2005), "Modeling Operating Speed and Speed Differential on Two-lane Rural Roads." Journal of Transportation Engineering, Vol. 131, No. 6

Morrall, J. and R. Talarico, (1994), "Side Friction Demanded and Margins of Safety on Horizontal Curves." Transportation Research Record 1435, Transportation Research Board, Washington, D. C.

Ottesen, J. L. and R. A. Krammes, (2000), "Speed-Profile Model for a Design Consistency Evaluation Procedure in the United States." Transportation Research Record 1701, Transportation Research Board, Washington D. C.

Park Y-J, Saccomanno FF. 2006. "Evaluating speed consistency between successive elements of a two-lane rural highway.1" Transportation Research Part a, Policy and Practice 40(5): 375-385

Perera, R. W., and Kohn, S. D. (2002). "Issues in Pavement Smoothness: A Summary Report." NCHRP Project 20-51

Polus, A., K. Fitzpatrick, D. B. Fambro, (2000), "Predicting Operating Speed on Tangent Sections of Two-Lane Rural Highways." Transportation Research Record 1737, Transportation Research Board, Washington D. C.

Rogerson, P. A., S. V. Newstead, and M. H. Cameron, (1994), "Evaluation of the Speed Camera Program in Victoria 1990-1991, Phase 3: Localized Effects on Casualty Crashes and Crash Severity. Phase 4: General effects on speed". Report No. 54, Monash University Accident Research Centre, Victoria, Australia

Safety and Design Consistency in Two Lane Rural Roads." The 3rd International Symposium on Highway Geometric Design", Transportation Research Board, Chicago,

Sayers, M. W., and Karamihas, S. M. (1996). "Interpretation of Road Roughness Profile Data." Federal Highway Administration, FHWA/RD-96/101

Schurr, K. S., P. T. McCoy, G. Pesti, and R. Huff, (2002), "Relationship between Design, Operating, and Posted Speeds on Horizontal Curves on Rural Two-Lane Highways in Nebraska." The 81st Transportation Research Board Annual Meeting, Transportation Research Board, Washington, D.C

Schurr, K., P. T. McCoy, D. Jessen, G. Pesti, R. Huff, (2000), "Relationship between Design, Operating and Posted Speeds under High-Posted Speed Conditions." NebraskaDepartment of Roads, Lincoln, Nebraska

Shafer, M. A., (1996), "Driver Mental Workload Requirements on Horizontal Curves Based on Occluded Vision Test Measurements." TTI-04690-2, Texas Transportation Institute, the Texas A&M University System, College Station, Texas

Shankar, V., Mannering, F., Barfield, W., 1996. "Statistical analysis of accident severity on rural freeways". Accident Analysis and Prevention 28 (3), 391-401.

Shinar, D. and J. Stiebel, (1986), "The Effectiveness of Stationary versus Moving Police Vehicle on Compliance with Speed Limit." Human Factors, Vol. 28

Stuster, J. and Z. Coffman, (1998), "Synthesis of Safety Research Related to Speed and Speed Management." FHWA-RD-98-154, Federal Highway Administration, Washington, D. C.

Taylor, M.A., Woolley, J.E., Zito, R., 2000. "Integration of the global positioning system and geographical information systems for traffic congestion studies." Transportation Research Part C: Emerging Technologies 8 (1-6), 257-285.

Tignor, S. C., and D. Warren, (1990), "Driver Speed Behavior on U.S. Streets and Highways." Compendium of technical Papers, Institute of Transportation Engineers, Washington, D. C.

Transportation Association of Canada, (1999). "Geometric Design Guide for Canadian Roads, Parts 1 and 2." Ottawa, Canada. Transportation Research Board, Washington, D. C. Vol. 127, No. 1

Wang, H. (2006). "Road Profiler Performance Evaluation and Accuracy Criteria Analysis." Master thesis, Civil and Environmental Engineering, Virginia Polytechnic Institute and State University, Blacksburg, Virginia.

Winfrey, R., (1969), "Highway Economic Analyses." International Textbook Co. Scranton, Pennsylvania

Wooldridge, M. D., K. Fitzpatrick, D. W. Harwood, L. Elefteriadou, D. J. Torbic, (2003), "Geometric Design Consistency on High-Speed Rural Two-lane Roadways." NCHRP 502, Transportation Research Board, Washington D. C.

Zegeer, C. V., J. M. Twomey, M. L. Heckman, J. C. Hayward, (1992), "Safety Effectiveness of Highway Design Features. Volume II, Alignment." FHWA-RD-91-045, Federal Highway Administration, Washington, D. C.