

Kumares C. Sinha
Edgar B. and Hedwig M. Olson Distinguished Professor of Civil Engineering
Lyles School of Civil Engineering
Purdue University
550 Stadium Mall Drive
W. Lafayette, Indiana 47907

Biographical Information

1. Date and Place of Birth

July 12, 1942; Calcutta, India; Naturalized U.S. Citizen, 1972

2. Education

B.S. in Civil Eng.	Jadavpur University, India	1961
Post Grad. Dipl. in Town & Regional Planning		
	Calcutta University, India	1964
M.S. in Municipal Eng.	University of Connecticut	1966
Ph.D. in Transportation Eng.	University of Connecticut	1968

3. Registration

Registered Professional Engineer, Indiana (#17171)

4. Positions Held

1997-Present	Edgar B. and Hedwig M. Olson Distinguished Professor of Civil Engineering
2016-2017	Eminent Scholar in Residence and Fellow, Hagler Institute for Advanced Studies, Texas A&M University
2016-2017	Lockheed Martin Guest Professor of Engineering and Computer Science, University of Central Florida
1995-2010	Director, Joint Transportation Research Program, Purdue University and Indiana Department of Transportation
1978-Present	Professor, Civil Engineering and Research Engineer, Joint Transportation Research Program, Purdue University
1981-2001	Head, Transportation and Infrastructure Systems Engineering, School of Civil Engineering, Purdue University
1991-1995	Associate Director, Joint Highway Research Project, Purdue University
1980 Fall	Visiting Professor, Department of Civil Engineering, Massachusetts Institute of Technology
1980 Spring	Visiting Professor, Department of Civil Engineering, Indian Institute of Technology-Roorkee and NSF Guest Scientist in India
1978-1979	Associate Director, Center for Public Policy and Public Administration,

	Purdue University
1974-1978	Associate Professor, School of Civil Engineering and Research Engineer, Joint Highway Research Project, Purdue University
1972-1974	Associate Professor, Department of Civil Engineering and Director of Urban Transportation Program, Marquette University
1968-1972	Assistant Professor, Department of Civil Engineering, Marquette University
1964-1968	Research Assistant, University of Connecticut
1966 Summer	Highway Engineer, Hardesty and Hanover, New York
1962-1964	Assistant Engineer, Public Works Department, W. Bengal, India
1961-1962	Junior Lecturer of Civil Engineering, Jadavpur University, India

5. Consulting

1988- 2014	World Bank. Assignments involving transportation and other infrastructure system issues including road and other transportation facilities construction and maintenance planning, financing, and budgeting and to formulate institutional programs to implement a wide range of reforms in transportation and other civil infrastructure policies and restructuring of higher education in Afghanistan, Bangladesh, China, Georgia, India, Iran, Nepal, Palestinian Territories, Yemen, and other Middle Eastern countries. Tools and procedures were developed for technical and fiscal assessment that formed the basis for infrastructure planning and financing, including modernization of technical education and training. Advised the Chinese Ministry of Transportation on expressway planning and financing; prepared highway policy papers for the Indian Planning Commission, reviewed the construction program of the National Highway Authority of India and made recommendations for reform.
1974- present	American Transit Association (predecessor of APTA), Applied Pavement Technology, Inc., Canadian Natural Sciences and Engineering Research Council, Federal Highway Administration, Indiana Transit Association, Greyhound Co., National Engineering Technology, Inc., National Research Council, Office of Technology Assessment of the U.S. Congress, Singapore Aviation Academy, System Development Corporation, and several other public and private organizations. Intermittent assignments on transportation related issues including life cycle cost analysis, highway cost allocation, user-cost estimation, pavement maintenance methodologies, and air transportation systems. Recent activities included work for the State of Rhode Island Attorney General on heavy vehicle permitting fees, and for State of Illinois Auditor General on pavement design procedures for life cycle performance.
1990-1993	World Bank and UN Development and Environmental Programs.

Developed environmental resource base for land transportation and framework for the assessment of transportation related impacts that can be used for formulating environmentally sustainable transportation policies for developing countries.

1968-1978 Southeastern Wisconsin Regional Planning Commission, Wisconsin DOT, Milwaukee County, and City of Milwaukee. As the systems engineering consultant, developed forecasting models for land use, transportation and housing needs for the 7-county region and for the analysis of traffic and transportation problems for Milwaukee and its surrounding areas.

6. Teaching and Mentoring

- a. Since 1968 taught at Marquette, Purdue, MIT (Visiting Professor) and Indian Institute of Technology-Roorkee (Visiting Professor). Developed graduate and undergraduate courses on 12 subjects including highway engineering, traffic operations, transportation systems analysis and evaluation, urban infrastructure systems modelling, highway asset management systems, public transportation, transportation investment decision making, traffic engineering, and the use of advanced technologies.
- b. Supervised 50 Ph.D., 30 Post- Doctoral and Visiting Scholars, and numerous M.S. and undergraduate students. Many of them are in senior positions in national, state, and local governments around the world. There are also faculty members in 20 universities, where some of them have served as department heads, deans of engineering and directors of research centers. In addition, there are CEOs, partners, or managers in consulting and other private firms and several with international organizations, notably the World Bank and Inter-American Bank. There is also a former prime minister, four ministers of transport, a senator, two university presidents, several public works directors, and heads of national and state transportation agencies.
- c. In 1970's took part in a campus-wide interdisciplinary program of studies on global resources representing Schools of Engineering of Purdue, organizing seminars, discussions and advising students.
- d. For about 30 years worked with the international Road Federation (IRF) in selecting and guiding mid-career professionals from developing countries to undertake graduate studies in highway and transportation engineering in US universities. Purdue is credited to have hosted the highest number of IRF Fellows among all participating universities in the US.
- e. Took part in a campus-wide initiative to establish the Center of Public Policy and Public Administration (CPPPA) at Purdue and served as its first Associate Director in 1978-79 and as a member of the Executive Committee for about a decade. Participated in setting the curriculum and other requirements for the MSPPPA degree program, mentored

students and supervised about a dozen graduates.

7. Awards and Honors

Honorary Member, for lifetime contributions in research, education and practice of transportation engineering, Institute of Transportation Engineers, 2024

OPAL Award, for outstanding leadership in civil engineering education, American Society of Civil Engineers, 2023

Member, Pan American Academy of Engineering, 2020

Honorary and/or Guest Professor, South China University of Technology, Guangzhou, 2018; Chongqing Jiao Tung University, 2018; University of Posts and Telecommunications, Chongqing, 2018; Southwest Jiao Tung University, Chengdu, 2017; Southeast University, Nanjing, 2015; University of Science and Technology, Changsa, 2007.

Distinguished Alumnus, Jadavpur University, India, 2017

Lifetime Achievement Award (inaugural recipient), for worldwide legacy in transportation education and research, International Society for Maintenance and Rehabilitation of Transport Infrastructures, 2016

James Laurie Prize, for contributions to the development of transportation asset management tools and procedures, American Society of Civil Engineers, 2011

Roy W. Crum Award, in recognition of outstanding achievement in transportation research, Transportation Research Board, National Research Council, 2009

Member, U.S. National Academy of Engineering, for contributions to the advancement of highway infrastructure engineering and management and to the education of transportation professionals worldwide, 2008

Honorary Member, American Society of Civil Engineers, for outstanding contributions to transportation education, research, and practice worldwide, 2005

Distinguished Award, Council of University Transportation Centers, for contributions to university transportation education and research, 2005

National Associate of the U.S. National Academies of Sciences, Engineering and Medicine (NASEM), Lifetime appointment in recognition of outstanding service, 2004

Fellow, Connecticut Academy of Distinguished Engineers, for outstanding contributions to engineering technology, innovation, education and outreach, University of Connecticut, 2004

Emeritus Member, Committee on International Activities, in recognition of years of dedicated service and significant contributions, Transportation Research Board (TRB), National Research Council (NRC), 2004

Wilbur S. Smith Distinguished Transportation Educator Award, in recognition of sustained and outstanding contributions through education, research and professional activities, awarded jointly by Institute of Transportation Engineers (ITE), Transportation Research Board (TRB) of the National Research Council (NRC), American Highway Users Alliance, International Road Federation, and Federal Highway Administration, 2002

Chi Epsilon Chapter Honor Member, Purdue University, 2002

Francis C. Turner Lecture Award, in recognition of leadership to promote transportation both professionally and as an academician, American Society of Civil Engineers (ASCE), 2001

Emeritus Member, Committee on Transportation Programming, Planning and System Evaluation, in recognition of years of dedicated service and significant contributions, Transportation Research Board (TRB), National Research Council (NRC), 2001

S.S. Steinberg Award, for outstanding contributions to transportation education, American Road and Transportation Builders Association (ARTBA), 2000

Harland Bartholomew Award, for outstanding contributions to urban planning research and education, American Society of Civil Engineers (ASCE), 1996

Engineering Alumni Award, for outstanding contributions to transportation engineering in the U.S. and internationally, University of Connecticut, 1995

Arthur Wellington Prize, for excellence of the paper on pavement performance, American Society of Civil Engineers (ASCE), 1992

Distinguished International Visiting Scholar (inaugural recipient), for lecturing on transportation, Ministry of Science and Technology, Slovenia, 1992

Distinguished Lecturer Award, Universities of Belgrade, Ljubljana, Maribor, Split, and Zagreb, Yugoslavia, U. S. Fulbright Program, 1988

International Research and Exchanges Board (IREX) Senior Scholar, for cooperative research and education, USSR, 1989

Frank M. Masters Transportation Engineering Award, for innovative and noteworthy work in transportation planning and management, American Society of Civil Engineers (ASCE), 1986

Guest Scientist in India, for research on urban transportation, U.S. National Science Foundation and University Grants Commission, India, 1981

Fred Burggraf Award, for excellence of the paper on freeway simulation, Transportation Research Board, National Research Council, 1972

University Gold Medal, in Town and Regional Planning, Calcutta University, 1964

Sagamore of the Wabash, for service to the State of Indiana, awarded by two different Governors, 1989 and 1997.

8. Professional Affiliations

American Society of Civil Engineers (Honorary Member)
Institute of Transportation Engineers (Life-Fellow)
Transportation Research Board
International Road Federation
Intelligent Transportation Society of America
American Road and Transportation Builders Association

9. Keynote Addresses and Invited Presentations

Ninety keynote addresses and distinguished lectures at international conferences and 160 invited presentations at various universities, research institutes and government agencies in the U.S. and abroad.

10. Professional Society Activities

American Society of Civil Engineers

Trustee, ASCE Foundation 2016- 2023; Chairman, Alfred Noble Prize Committee 2006-present; Member, Society Global Strategy Committee 2011-2013; Member, Walter Huber Research Prize Committee, 2002-6; Member, ASCE Transportation & Development Institute Award Committee, 2005- 2008; President, ASCE Transportation and Development Institute (T&DI) (2003-2004), Vice President (2002) Member, Board of Governors (2001-2006); Chairman, Highway Division Executive Committee (1996-97), Member (1993-1998), Vice Chairman (1995-96), Secretary (1994-95); Chairman, Urban Transportation Division Executive Committee (1982-83), Member, (1978-84), Vice-Chairman (1981-82), Secretary (1978-80); Chairman, T&DI Publication Committee (2001-2008); Member, ASCE Board Technical Activities Committee (2000-2003); Member, Council of Institute Leaders (2001-2003); Book Acquisition Committee, (1991-present); Task Committee for Transportation and Development Institute (1997-2002); Chairman, Highway Division Award Committee (1997-1998); Committee on

Advanced Technologies (1987-present); Committee on Highway Planning and Economics (1989-present), Chairman (1989-93); Publication Committee, Highway Division, (1987-2001), Chairman (1987-95); Publication Committee, Urban Transportation Division (1984-2001), Chairman (1984-93); Chairman, MGC Journal Editorial Board (1992-97); Committee on Construction and Maintenance of Highways (1989-present); Committee on Highways and Environmental Quality (1993-present); Committee on Infrastructure Management (1989-present); Committee on Automated Highway Systems (1992-1998); Committee on Urban Transportation Economics (1972-84), Chairman, (1972-78); Urban Transportation Division Program Committee (1980-84); Chairman, Urban Transportation Awards Committee (1983-84); National Transportation Policy Committee (1981-84); Engineering Education Committee, Wisconsin Section (1971-72); Infrastructure Study Committee, Indiana Section (1978-80).

Transportation Research Board, National Research Council of National Academies of Sciences, Engineering and Medicine (NASEM)

Member, Executive Committee, 2011- 2017; Member, NASEM Liaison Committee, 2008- present; Member, Research and Technology Coordinating Committee (FHWA), 2008-2015; Member, Transportation Research Record Publication Board, 2006- 2015; Chairman, Group 5 Council, Intergroup Resources and Issues (1998-2001), Member, (1990-2001); Member, Division A Council (1998-2001); Committee on International Activities (1983-1997), Chairman, (1990-96); Committee on Transportation Education and Training (1989-2005); Committee on Applications of Emerging Technology (1990-2000); Subcommittee on Bridge Management Systems (1991-2001); Committee on Bridge Management Systems (2001-2004); Transportation Systems Planning Group, Highway Research Board (1972-74); University Liaison Representative, Highway Research Board (1969-74); NCHRP Advisory Panel on Private Financing of Highway Improvements (1985-88); Committee on Transportation Programming, Planning and Evaluation (1976-present), Secretary, (1984-88), Chairman, Subcommittee on Priority Setting Criteria (1976-80), Chairman, Subcommittee on Highway Programming (1980-86), Chairman, Subcommittee on Highway Project Evaluation (1987-92); Committee on Urban Activity Systems (1975-1980); Ad Hoc Committee on Land Use Transportation Planning in Developing Countries and Editor of the Newsletter (1980-85); Task Force on Freight Movement, Committee on Regional Development and Land Use (1980-82); Committee on Local Transportation Finance, (1980-92); NCHRP Panel on Bayesian Analysis Methodology for Asphalt Pavement Maintenance Recommendations (1975-77); NCHRP Panel on Effective Maintenance Budget Scenarios (1989-94); NCHRP Panel on Specialized Education for Professional Maintenance Engineers (1989-94); NCHRP Advisory Panel on Transportation Capital Programming (1988-89); NCHRP Panel on Short Term Maintenance Systems (1988-90); NCHRP Panel on Quality Assurance in Highway Maintenance (1994-present); NCHRP Panel on Transportation Development

Process (1995-present); NCHRP Panel on Transportation Programming Techniques (1995-97); NCHRP Panel on Maintenance Management Research Needs (1987-89); TRB Advisory Committee on ITS IDEA (1993-97).

Institute of Transportation Engineers

Chairman, Committee on Transit Efficiency (1979-82); Chairman, Committee on Transportation Engineering Curriculum Needs in Developing Countries (1980-83); Committee on Manpower Needs in Transportation (1983-85); Committee on Transportation and Energy (1982-85); Committee for the Evaluation of Transportation System Improvements (1970-74); Committee on Traffic Engineering in Small Communities (1975-77); Committee on Professional Conduct (1975-76); Faculty Advisor, Purdue University Student Chapter (1975-80); Committee on Student Chapter Awards (1981-82); Scholarship Committee, Indiana Section (1995-2000).

Strategic Highway Research Program, National Research Council

SHRP2 Oversight Committee (2009-15); SHRP1 Advisory Committee on Maintenance (1985-86); SHRP1 Advisory Committee on Highway Operations (1986-88); SHRP1 Advisory Committee on Innovative Research (SHRP-IDEA) (1987-92); SHRP1 Expert Review Panels (1985-87).

Council of University Transportation Centers

President (1991-92); Vice-President (1989-91); Secretary (1988-89); Member, Executive Committee (1987-93); SHRP Liaison (1985-88); Strategic Planning Committee (1994-1996); Student Awards Committee (1991-2000).

International Road Federation

Member, Board of Directors, 2005- 2012; Member, Board of Directors, International Road Educational Foundation (IREF), 2003- 2012; Chairman, Fellowship Advisory Committee, (1994-2012); Member, (1984-2012).

Sigma Xi

Executive Committee, Marquette University Chapter (1971-72).

Intelligent Transportation Society (ITS) of America (ITSA)

World Convention Committee (1990-92); Committee on Standards and Protocols (1997-2005), Committee on Advanced Rural Transportation Systems (1997-

2005), Committee on Institutional Issues (1997-2005), Committee on Benefit Evaluation and Costs (1997-99), Committee on Education and Training (1999-2005), Founding Member of ITS-Midwest Board of Directors (1993-2001), Committee on Membership (1994-96).

American Road and Transportation Builders Association

President, Research and Education Division (2003-2004), Vice President (2002-2003), Member, Board of Directors (1999-2004).

Journal Editorial Boards

Editor-in-Chief Emeritus, ASCE Journal of Transportation Engineering (2008-present); Editor-in-Chief (1984-2008)

Editorial Board, ASCE Journal of Infrastructure Systems (1993-2004)

Editorial Board, Journal of Transportation and Statistics (2000-2006; 2011-present)

Publication Board, Transportation Research Record (2006- 2015)

Editorial Board, Transportation Journal, Institute of Transportation Engineers, (2008-present)

Editorial Board, Journal of Transportation in Developing Economies, Elsevier, (2014-present)

Editorial Board, Annals of Transportation Science, Polish Academy of Sciences, (2012-present)

Editorial Board, Transportation Sustainability and Quality of Life, Taylor and Francis, (2023- present)

National Academy of Engineering

Member, Civil Engineering Peer Committee, 2010-2013

Member, Special Nominating Committee for Geographical Diversity of International Members, 2018-2020

Member, Civil Engineering Peer Committee, 2019-2022, Vice-Chair 2020 and Chair, 2022

Member, Section Nominating Committee, 2023-2026

11. Federal, State, and Local Advisory Boards

Federal Highway Administration Advisory Committee, Long Term Infrastructure Performance, 2017-2020; Advisory Committee for Implementation of SHRP2 Products and Services, 2011-2015; Blue Ribbon Panel of Experts, U.S. National Surface Transportation Policy and Revenue Study Commission, 2006-2007 (appointed by the US Congress); Federal Advisory Council on Transportation Statistics, executive committee overseeing the activities of the Bureau of Transportation Statistics (appointed by the USDOT Secretary), 2001-2005; Indiana Governor's Committee on Transportation, 1989;

INDOT Oversize and Overweight Truck Committee, 1995-97; Indiana ITS Strategic Planning Committee, 1990-95; Chicago-Gary-Milwaukee Corridor Project Technical Committee, 1993-1997; Mayor's Strategic Planning Committee, West Lafayette, IN, 2002-03; Chairman, Traffic Commission, City of West Lafayette, IN, 1999-present.

12. Conferences and Short Courses

Conference Chairman or Steering Committee Member of 70 national and international conferences in the U.S. and abroad on various emerging topics including transportation facility management, traffic and transportation studies, and transportation and environment, sponsored by ASCE, TRB, FHWA, FTA and other organizations. Founded a successful ASCE international conference series on applications of advanced technologies in transportation engineering held 10 times in different locations in the U.S. and abroad. Taught 25 off-campus short courses in the U.S. and abroad on transportation systems evaluation and infrastructure management. Directed 22 on-campus workshops and short courses on traffic engineering, safety, and management systems.

13. Funded Research

Principal or Co-Principal Investigator of over 170 separate research projects funded by U.S. Department of Transportation, Federal Highway Administration, Urban Mass Transportation Administration (Federal Transit Administration), Research and Special Programs Administration, Indiana Department of Transportation, U.S. Department of Agriculture, National Cooperative Highway Research Program (NCHRP) of National Research Council of NASEM, U.S. Army Corps of Engineers, U.S. Department of Energy, Westinghouse, National Science Foundation, and Lilly Endowment.

The research covered a wide range and can be grouped into six major areas i) traffic engineering including freeway traffic operation, traffic flow modeling, and safety evaluation; ii) transportation and infrastructure planning involving forecasting reliability, land-use design, and planning models; iii) public transportation operation including optimal route planning, and performance evaluation; iv) transportation financing and policy analysis including cost allocation, revenue analysis, optimal resource allocation, project evaluation, user fee structures, subsidy allocation techniques and public-private partnership; v) highway infrastructure management systems involving deterioration modeling, optimal scheduling of maintenance and repair (M&R), tradeoffs between M&R activities, and capital programming; and vi) use of emerging technologies in transportation including connected and automated transportation, transition pathways, infrastructure preparedness, and impact evaluations. The research results are widely published in *Transportation Research Record* of the Transportation Research Board

(TRB) of NASEM. Many of the tools and techniques have been adopted by operating agencies and private consultants throughout the world. Most of the research reports are available through the Purdue Joint Transportation Research Program (JTRP) website.

Served as the Associate Director (1990-1995) and the Director (1995-2000) of the Joint Transportation Research Program of Purdue University and Indiana Department of Transportation, an exemplary university-government-industry cooperative research effort, with an average annual budget of \$4 million, involving 40 faculty members and 80 graduate students.

15. External Academic Advisory and Other Program Review Panels

Virginia Polytechnic and State University, 1998; University of Virginia, 1999 (Chair); University of California-Irvine, 2000; Wayne State University, 2003 (Chair); National University of Singapore, 1994, 1996, 1998, 2000, 2002; World Bank's Transportation Sector Operation, 2002; University of California – Irvine, 2005 (Chair); American University of Beirut, Lebanon, 2006 (Chair); Georgia Technical University- Tblisi, 2009; Hong Kong Polytechnic University, 2008-2010 and 2014-2016; Tongji University, 2013; University of Wisconsin-Madison, 2015; Harbin Institute of Technology, 2015; University of Michigan- Ann Arbor, 2015 (Chair); University of Illinois-Urbana (2016).

16. Selected Publications

Book

Sinha, K. C. and Labi, S. Transportation Decision-Making: Principles of Project Evaluation and Programming, John Wiley & Sons, New York, N. Y., 2007

Book Chapters and Monographs

1. Sinha, K. C., editor, "Urban Transportation Planning and Engineering," Proceedings of Lecture Series, Urban Transportation Program, Marquette University, 232 pages, 1973.
2. Sinha, K. C., editor, Proceedings, ASCE Conference on Urban Transportation Efficiency, New York, 434 pages, 1976.
3. Hendrickson, C. T. and Sinha, K. C., editors, Proceedings, ASCE First International Conference on Applications of Advanced Technologies in Transportation Engineering, San Diego, California, 547 pages, February 1989.
4. Varma, A*., Souba, J*., Sinha, K. C. and Faiz, A., "Environmental and Ecological Considerations in Land Transport: A Resource Guide," INU 41, Infrastructure and Urban Development Department, The World Bank, Washington, D.C., 230 pages, March 1989.
5. Faiz, A. and Sinha, K. C., "Air Pollution from Motor Vehicles: Issues and Options for

- Developing Countries," World Bank, Washington, D.C. and UNEP/IEO, Paris, 350 pages, April 1992.
6. Kleywegt, A*. and Sinha, K. C., "Highway Infrastructure Management," in Civil Engineering Handbook, Chapter 63 (edited by W.F. Chen), CRC Press, 2387-2420, 1995.
 7. Sinha, K. C. and Labi, S*., "Highway Engineering," in Yearbook of Science and Technology, McGraw-Hill, 540-544, 2001.
 8. Li, Z*., Labi*, S. and Sinha, K. C., "Highway Asset Management," in Civil Engineering Handbook, Chapter 67 (edited by W. F. Chen), CRC Press, 2nd Edition, 66.1-66.34, 2003.
 9. Raguraman, K. and Sinha, K. C., "Access Management of Highways," Handbook of Highway Engineering, Chapter 2 (edited by T. F. Fwa), CRC Press, 2.1 – 2.19, 2005.
 10. Labi, S*. and Sinha, K. C., "Highway Engineering", Yearbook of Science and Technology, McGraw-Hill, 2006
 11. Sinha, K.C., Labi, S., and Ong,G.P., "Transportation Decision- Making in a Changing World: Current Challenges and Future Prospects", Feasibility Decisions in Transportation Engineering (edited by Silvio Nocera), McGraw-Hill, 2010
 12. Sinha, K.C., "Recent Developments in Traffic Safety in the US", Approaches to Road Traffic Crash Prevention (edited by Huiqing, Jin), Proceedings of a Conference Organized by the Chinese Academy of Engineering, Beijing, 2012
- Journal Articles
1. Sinha, K. C. and Dawson, R. F. (1970). "The Development and Validation of a Freeway Traffic Simulator," Highway Research Record 308, National Research Council, 34-47.
 2. Sinha, K. C. and Dawson, R. F. (April 1970). "Digital Computer Simulation of Freeway Traffic Flow", Traffic Quarterly, Eno Foundation for Transportation, 279-296.
 3. Tomicak, W. W. and Sinha, K. C. (April 1971). "A Study of Section-Gap Acceptance Phenomenon at Stop-Controlled Intersections", Traffic Engineering, 28-33.
 4. Sinha, K. C. and DeCabooter, P. H. (October 1972). "A Computer Simulation Model of Driver Vision While Merging from a Freeway On-Ramp," Traffic Quarterly, 589-613.
 5. Sinha, K. C. (1972). "Reliability Analysis in Land Use-Transportation Planning," Highway Research Record 392, National Research Council, 157-158.
 6. Sinha, K. C. (November 1972). "Statistical Decision in Forecasting Planning Data," ASCE Journal of Transportation Engineering, Vol. 98, No. TE4, 865-880.

7. DeCabooter, P. H. and Sinha, K. C. (1972). "A Comparison Study of the Driver Visual Part-Task During Left-and- Right Hand Freeway Merging Maneuvers by Computer Simulation," Highway Research Record 388, National Research Council, 1-12.
8. Sinha, K. C., Schlager, K. J., and Adamski, J. T. (1973). "Use of Random Search Technique to Obtain Optimal Land Use Plan Design," Highway Research Record 422, National Research Council, 53-65.
9. Abe, M. A. and Sinha, K. C. (February 1973). "Pricing in Mass Transportation," ASCE Journal of Transportation Engineering, Vol. 99, No. TE1, 83-91.
10. Sinha, K. C. and Roehmer, F. P. (1974). "Personal Security in Buses and Its Effect on Ridership in Milwaukee," Transportation Research Record 487, National Research Council, 13-25.
11. Makowski, G. G., Chatterjee, A., and Sinha, K. C. (1974). "Reliability Analysis of Origin-Destination Surveys and Determination of Optimal Sample Size," Transportation Research Forum Proceedings, Vol. XV, Number 1, 167-176.
12. Yunker, K. R. and Sinha, K. C. (October 1975). "Energy Considerations in Urban Transportation Planning," Traffic Quarterly, 571-592.
13. Chatterjee, A. and Sinha, K. C. (May 1975). "Mode Choice Estimation for Small Urban Areas," ASCE Journal of Transportation Engineering, Vol. 101, No. TE2, 265-278.
14. Chatterjee, A. and Sinha, K. C. (August 1975). "Distribution of Benefits in Public Transit Projects," ASCE Journal of Transportation Engineering, Vol. 101, No. TE3, 505-519.
15. Batchelor, T. J., Sinha, K. C., and Chatterjee, A. (1976). "Benefit-Cost Analysis of the Milwaukee Freeway System," Transportation Research Record 550, National Research Council, 35-47.
16. Makowski, G. G. and Sinha, K. C. (1976). "A Statistical Procedure to Analyze Partial License Plate Numbers," Transportation Research, Vol. 10, 131-132.
17. Abou-Loghd, Z., Chatterjee, A., and Sinha, K. C. (May 1976). "Analysis of Bicycle Accidents in the City of Milwaukee," ASCE Journal of Transportation Engineering, Vol. 102, No. TE2, 347-362.
18. Lingaraj, B. P., Chatterjee, A., and Sinha, K. C. (1976). "An Optimization Model for Determining Headways for Transit Routes," Transportation Planning and Technology, Vol. 3, 81-90.
19. Mekemson, J. R. and Sinha, K. C. (January 1977). "Traffic Engineering Functions in Small Municipalities," Traffic Engineering, 38-41.

20. Chatterjee, A., Martinson, D. R., and Sinha, K. C. (November 1977). "Practical Guidelines for Trip Generation Analysis for Regional Transportation Studies," ASCE Journal of Transportation Engineering, Vol. 103, No. TE6, 825-841.
21. Makowski, G. G., Bakr, M. M., and Sinha, K. C. (November 1977). "Obtaining Transportation Mode Utilities Using the Elimination by Aspects Model," ASCE Journal of Transportation Engineering, Vol. 103, No. TE6, 807-823.
22. Purnell, L. O., Yoder, E. J., and Sinha, K. C. (1977). "A Methodology for the Evaluation of Railroad Abandonment on Rural Highways," Transportation Research Record 634, National Research Council, 39-40.
23. Radwan, A. E. and Sinha, K. C. (April 1978). "Effect of 55-MPH Speed Limit on the Severity and Cost of Heavy Truck Accidents," Traffic Quarterly, 319-328.
24. Hall, D. L., Sinha, K. C., and Michael, H. L. (1978). "A Comprehensive Evaluation of Non-Signalized Control at Low-Volume Intersections," Transportation Research Record 681, National Research Council, 10-12.
25. Sinha, K. C. and Wienser, N. P. (1978). "Earth Berms -- Their Actual and Perceived Effects on Noise and Privacy in Adjacent Neighborhoods," Transportation Research Record 685, National Research Council, 23-29.
26. Brachman, M. E. and Sinha, K. C. (Fall 1979). "The Effects of Labor Strikes on Urban Transit Operations," Public Transit, Vol. 4, No.4, 49-60.
27. Bhandari, A. S. and Sinha, K. C. (1979). "Optimal Timing for Paving Low-Volume Gravel Roads," Transportation Research Record 702, National Research Council, 83-87.
28. Bhandari, A.S. and Sinha, K. C. (1979). "Analysis of the Impact of Short Term Service Changes Upon Bus Transit Performance," Transportation Research Record 718, National Research Council, 12-18.
29. Radwan, A. E., Sinha, K. C., and Michael, H. L. (1979). "Guidelines for Traffic Control at Isolated Intersections on High Speed Rural Highways," Transportation Research Record 737, National Research Council, 10-17.
30. Mannerling, F. L. and Sinha, K. C. (October 1979). "Forecasting Automobile Fleet Fuel Efficiency," Traffic Quarterly, 637-648.
31. Patterson, T. W. and Sinha, K. C. (November 1979). "Tax Policies in Core Area Improvement Programs," ASCE Journal of the Urban Planning and Development Division, Vol. 105, No. UP2, 129-135.
32. Radwan, A. E. and Sinha, K. C. (March 1980). "Gap Acceptance and Traffic Delay at

Stop Controlled Intersections on Multi-Lane Divided Highways," ITE Journal, 38-44.

33. Mahmassani, H. S., Bevilacqua, O. M., and Sinha, K. C. (1980). "A Framework for Transferring Travel Characteristics of Small Urban Areas," Transportation Research Record 730, National Research Council, 29-34.
34. Mannerling, F. L. and Sinha, K. C. (1980). "Methodology for Evaluating the Impacts of Energy, National Economy, and Public Policies on Highway Financing and Performance," Transportation Research Record 742, National Research Council, 20-27.
35. Sinha, K. C. (1980). "Changing Criteria for Project Evaluation and Priority Setting," Transportation Research Record 742, National Research Council, 40-42.
36. Sinha, K. C., Jukins, D. P., and Bevilacqua, O. M. (1980). "A Stratification Approach to Urban Transit Performance Evaluation," Transportation Research Record 761, National Research Council, 20-27.
37. Radwan, A. E. and Sinha, K. C. (1980). "Countermeasures to Improve Safety at Multi-Lane Rural Intersections," Transportation Research Record 773, National Research Council, 14-17.
38. Sinha, K. C. and Jukins, D. P. (January 1980). "Transportation Project Evaluation and Priority Programming: Techniques and Criteria," Transportation Research Circular 213, National Research Council, 1-35.
39. Chang, C. J., Miles, R. D., and Sinha, K. C. (August 1981). "A Regional Railroad Network Optimization for Coal Transportation," Transportation Research B, Vol. 15B, No. 4, 227-238.
40. Mahmassani, H. and Sinha, K. C. (1981). "Bayesian Updating of Trip Generation Parameters", ASCE Journal of Transportation Engineering of ASCE, Vol. 107, No. TE5, 581-589.
41. Mekemson, J. R. and Sinha, K. C. (1981). "Development and Evaluation of a Synthetically Self-Calibrating Gravity Model," Transportation Research Record 807, National Research Council, 15-20.
42. Sinha, K. C., Pickett, K. L., and Hittle, J. E. (1981). "Financing County Highways," Transportation Research Record 813, National Research Council, 1-5.
43. Sinha, K. C., Kaji, T., and Liu, C. C. (1981). "Optimal Allocation of Funds for Highway Safety Improvement Projects," Transportation Research Record 808, National Research Council, 1981, 24-30.
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