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REPORT NO. DOT-UMTA-71-3

# BIBLIOGRAPHY ON GROUND VEHICLE COMMUNICATIONS & CONTROL: A KWIC INDEX

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JULY 1971  
ANNUAL REPORT  
VOLUME II

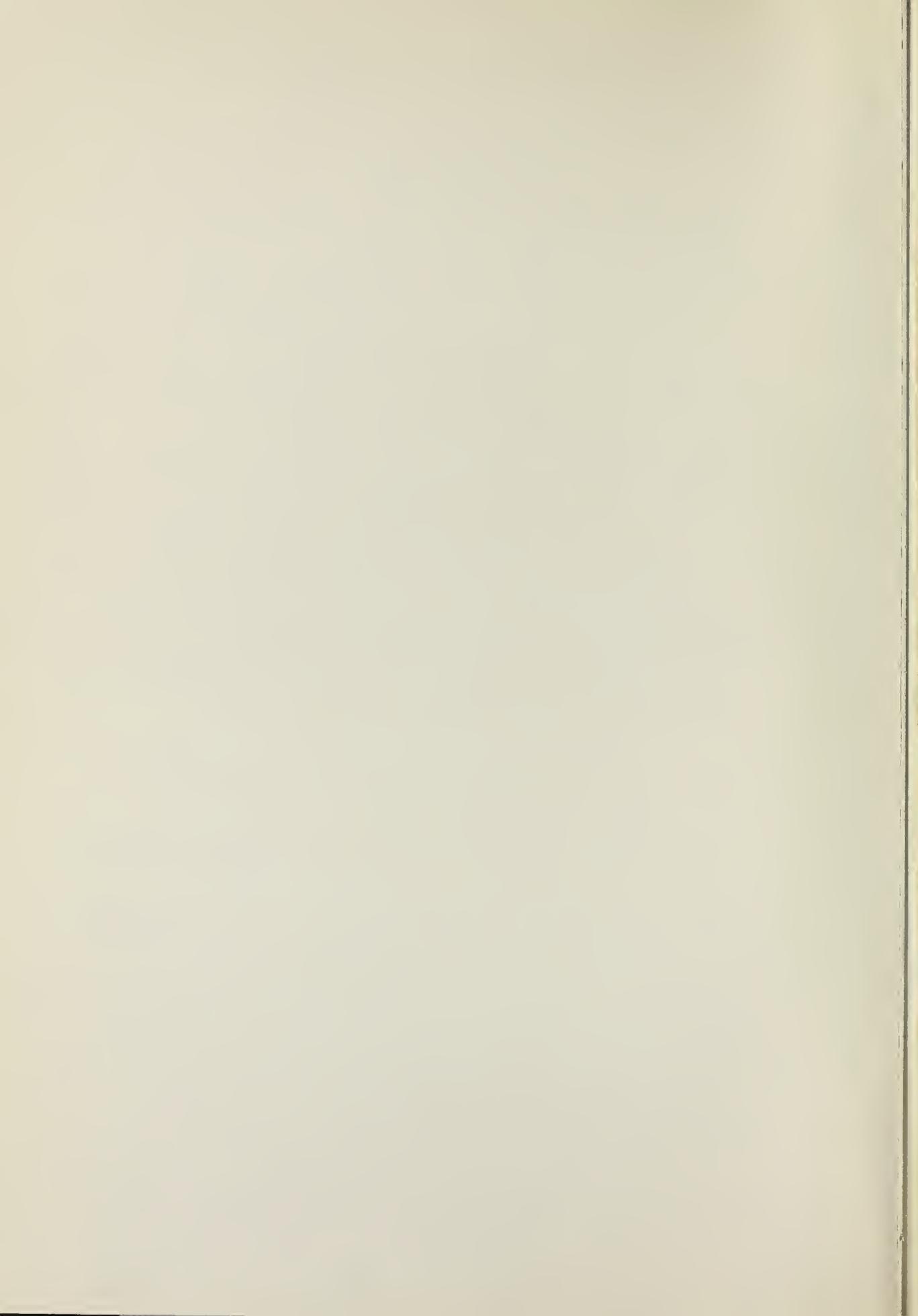
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URBAN MASS TRANSPORTATION ADMINISTRATION  
U. S. DEPARTMENT OF TRANSPORTATION  
WASHINGTON, D. C. 20590

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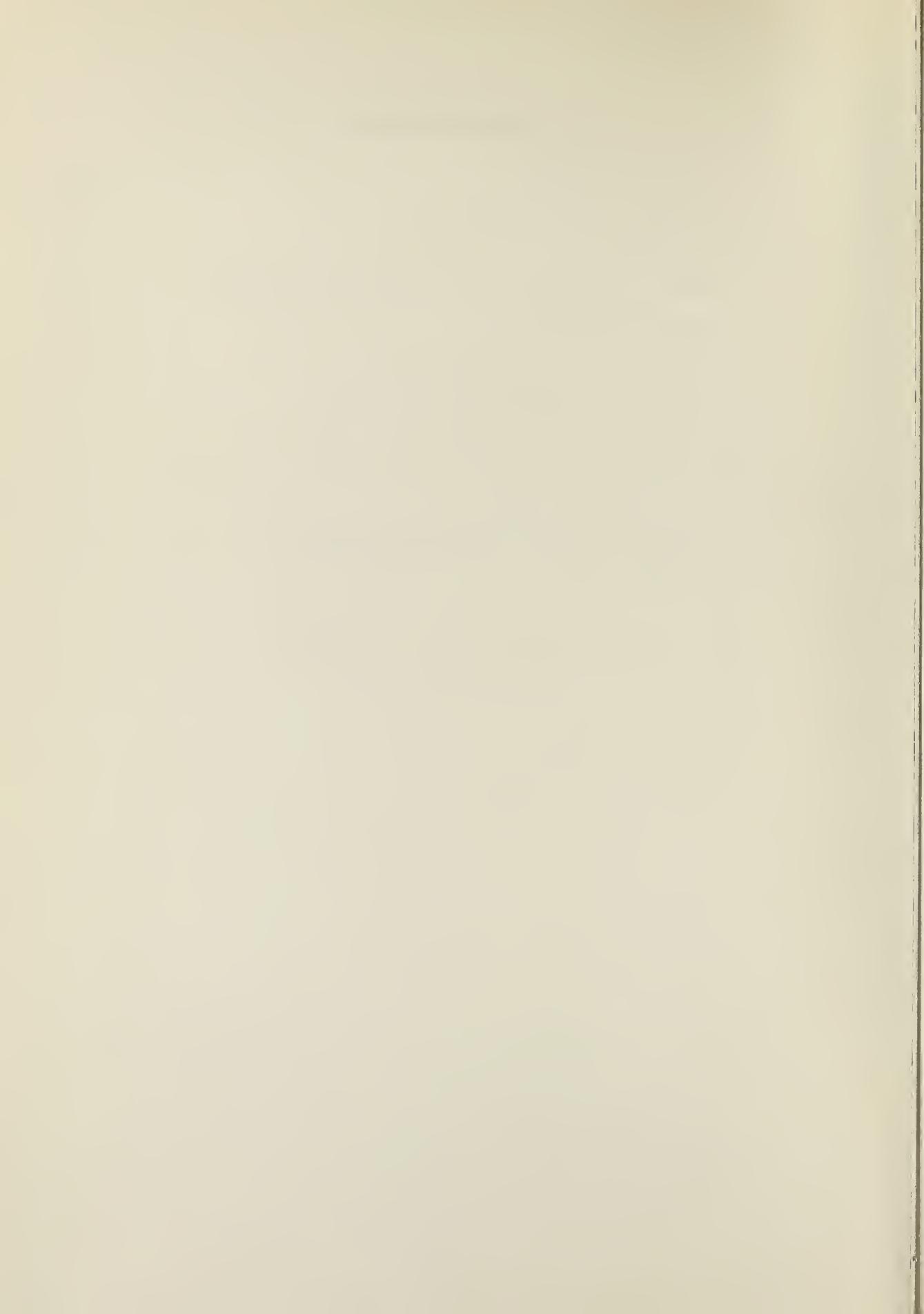
The contents of this report reflect the views of the Urban Mass Transportation Administration which is responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policy of the Department of Transportation. This report does not constitute a standard, specification or regulation.

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7. Author(s) W. I. Thompson, III	8. Performing Organization Report No.		
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12. Sponsoring Agency Name and Address Urban Mass Transportation Administration U.S. Department of Transportation Washington, D.C. 20590		13. Type of Report and Period Covered Annual Report; Vol. II July 1971	
14. Sponsoring Agency Code		15. Supplementary Notes	
<p>16. Abstract</p> <p>This bibliography covers the subject of communication and control of ground vehicles. This covers the fields of land-mobile communication, computer aided traffic control, communication with high speed ground vehicles, and radio frequency noise. Emphasis is placed on the 150, 450 and 900 MHz frequency bands.</p> <p>The bibliography has two indexes: a key word in context, KWIC index; and an author index. There are 1100 citations in the bibliography.</p> <div data-bbox="999 1288 1307 1566" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>DEPARTMENT OF TRANSPORTATION</p> <p><b>FEB 28 1973</b></p> </div>			
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19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 191	22. Price



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## 1.0 INTRODUCTION

### 1.1 GENERAL DESCRIPTION OF BIBLIOGRAPHY

This bibliography was compiled in conjunction with Program Plan Agreement (PPA UM03-1) Ground Vehicle Communication & Control. The basic material deals with land mobile radio communication, automatic traffic control and communication with tracked vehicles.

Some earlier work on KWIC indexes is described in References 1-6.

The bibliography is divided into four parts as listed in the table of contents.

The accession number listing gives the following information: local accession number (in this case UMTA-XXX); authors (up to 80 characters); year of publication; title (up to 180 characters); title of journal; volume number; inclusive page numbers; NASA, DDC, or NTIS accession number (See Table 1-1) if known; report number; contract number; corporate source; and location of corporate source.

The author index lists alphabetically all authors given in the accession number, and as much of the title as space permitted.

The negative key word list is an alphabetical listing of the letters, and words not searched in the KWIC index.

The permuted title index or KWIC index is an arrangement of the title of a document such that a key word is printed in

the center of the page. In general, the shorter the title the longer the work in the document. In many instances some key words were added to the titles of brief or non-descriptive titles to add to the usefulness of the work. These title enriching words were usually added after a colon.

## 1.2 SOURCES OF DOCUMENTS

Most of these documents listed are available from the centers listed in Table 1-1.

## 1.3 REFERENCES TO CHAPTER 1

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TABLE 1. SOURCES OF TECHNICAL INFORMATION WITH THEIR ACCESSION NUMBER SYMBOL OR ABBREVIATED TITLE

SYMBOL	SOURCE																				
AXX-XXXXX	International Aerospace Abstracts (IAA) (See Ref. 7) Published semimonthly by American Institute of Aeronautics and Astronautics, 750 Third Avenue, New York, NY 10017*																				
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	AD-600 000 Series. . . . . X																				

SYMBOL	SOURCE
CC or ISI	Current Contents in such fields as: Engineering and Technology; Physical Sciences; A Service of the Institute for Scientific Information, 325 Chestnut St., Philadelphia, PA 19106. Original Article Tear Sheet Service (OATS).
CFSTI or PB XXX-XXX NTIS**	Clearinghouse for Federal Scientific and Technical Information** (CFSTI), National Bureau of Standards, Springfield, Va 22151.
NXX-XXXXX	Scientific and Technical Aerospace Reports (see Ref. 7) Published semimonthly by: NASA Scientific and Technical Information Facility, P.O. Box 33, College Park, MD 20740.*
Sm. Inst.	Publications Distribution Section, Editorial and Publications Division, Smithsonian Institution, Washington, DC 20560.
SOD (see Supt. Docs.) Supt. Docs. or SOD TIP (see AD)	Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.
Univ. Microfilms	University Microfilms, 300 N. Zeeb Road, Ann Arbor, MI 48106.
X00-00000	Unclassified report in the NASA Information System available to United States Government Agencies and United States Government Contractors only.  Commissioner of Patents, Washington, DC 20231, (\$.50 for each patent).

\*Note: The symbol # following the accession number indicates that the document is available in microfiche form.

\*\*CFSTI is now the National Technical Information Service, NTIS, Send to National Technical Information Service, Operations Division, Springfield, VA 22151. (Sept. 2, 1970).

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EDIE, L.C.	(1964 )	UMTA707	DISCUSSION OF TRAFFIC STREAM MEASU
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TEKNEKRON, INC.	(1970A)	UMTA457	URBAN VEHICLE MONITORING: TECHNOLO
TEKNEKRON, INC.	(1970B)	UMTA458	URBAN VEHICLE MONITORING: TECHNOLO
TEKNEKRON, INC.	(1970C)	UMTA459	URBAN VEHICLE MONITORING: TECHNOLO
TEKNEKRON, INC.	(1970D)	UMTA460	URBAN VEHICLE MONITORING: TECHNOLO
TELECOMMUNICATION SCIE	(1966 )	UMTA96	ELECTROMAGNETIC SPECTRUM UTILIZATI
TELECOMMUNICATIONS	(1971A)	UMTA856	SPECIAL INDUSTRY SURVEY ON CRT ALP
TELECOMMUNICATIONS	(1971B)	UMTA858	AUTOMATIC MOBILE RADIOTELEPHONE SY
TELECOMMUNICATIONS	(1971C)	UMTA983	SSB RADIO TELEPHONE; MOBILE RADIO
TELECOMMUNICATIONS	(1971D)	UMTA1046	SPECIAL ISSUE ON MOBILE COMMUNICAT
TELECOMMUNICAZIONI	(1970 )	UMTA860	SPECIAL ISSUE OF MOBILE RADIO
TELEDYNE SYSTEMS CO.	(1969 )	UMTA445	LORAN C/D RECIEVER: VENDOR DATA; C
TELEDYNE SYSTEMS CO.	(1970B)	UMTA439	LORAN POSITION FIXING NAVIGATIONAL
TELEDYNE SYSTEMS CO.	(1970C)	UMTA896	LORAN AUTOMATIC VEHICLE MONITORING
TELEDYNE SYSTEMS CO.	(1971 )	UMTA1013	LORAN AUTOMATIC VEHICLE MONITORING
TELEVISION DIGEST INC.	(1970 )	UMTA209	TELEVISION FACT BOOK; VOL. 1 SERVI
TELEDYNY STSMTS CO.	(1970A)	UMTA443	MATHEMATICAL DESCRIPTION OF TELEDY
TEXAS TRANSPORTATION I	(1967 )	UMTA594	BIBLIOFRAPHY ON HYDROPLANING
THIERS, G. R.	(19XX )	UMTA736	URBAN RAPID TRANSIT CONCEPTS AND E
THOMAS, A. C.	(1963 )	UMTA819	AN ANTI-REAR AND COLLISION SYSTEM
THOMAS, H. E.	(1970 )	UMTA888	HANDBOOK OF PULSE-DIGITAL DEVICES
THOMAS, J. B.	(1969 )	UMTA1030	SOME PHYSICAL MODELS FOR NOISE PRO
THOMPSON, W. I., III	(1971 )	UMTA1023	MULTIPATH PROPAGATION BIBLIOGRAPHY
TIJZHELOV, V. V.	(1959 )	UMTA635	THE EXPERIMENTAL INVESTIGATION OF

TIDUS, D.B.	(1969 )	UMTA440	,AUTOMATIC VEHICLE MONITOR TELEEDYN
TILSON, S.	(1963 )	UMTA697	THE NEW NAVIGATION; LORAN-C
TOIA, M.J.	(1970 )	UMTA494	THE FCC'S NEW APPROACH TO SPECTRUM
TORRES, J.F.	(1967 )	UMTA818	THE EFFECTS OF STREET GEOMETRICS A
TORRIANI, C.	(1970 )	UMTA1058	INFLUENCE OF THE WEATHER ON LONG R
TRAFFIC ENGINEERING	(19XX )	UMTA676	TRAFFIC ENGINEERING; JOURNAL
TRAFFIC ENGINEERING AN	(19XX )	UMTA686	TRAFFIC ENGINEERING AND CONTROL; J
TRAFFIC RESEARCH CORP	(1966 )	UMTA769	PART 1 INTERSECTION SIMULATION MOD
TRAFFIC RESEARCH CORP.	(196 )	UMTA401	THE CONTROL OF TRAFFIC SIGNALS IN
TRAFFIC SERVICE CORP.	(19XX )	UMTA783	GLOSSARY OF TRAFFIC TERMS
TRANSPORTATION LECTURE	(1971 )	UMTA716	TRANSPORTATION; LECTURES
TRANSPORTATION SYSTEM	(1971 )	UMTA694	SUMMARY OF GROUND VEHICLE COMMUNIC
TREITERER, J.	(1969 )	UMTA962	A NEW INTERSECTION STUDY TECHNIQUE
TREMPER, P.	(1969 )	UMTA1038	FREAVY: A FREQUENCY AVAILABILITY C
TREXLER, T.T.	(1970 )	UMTA1028	POSITION-DETERMINATION SYSTEMS FOR
TRW SYSTEMS GROUP	(1969 )	UMTA195	STUDY OF SYNCHRONOUS LONGITUDINAL
TRW SYSTEMS GFOUP	(1969A)	UMTA585	AUTOMATED HIGHWAY SYSTEMS
TRW SYSTEMS GROUP	(1970A)	UMTA587	NORTHEAST CORRIDOR TRANSPORTATION
TRW SYSTEMS GROUP	(1970B)	UMTA1025	SUPPORTING STUDIES FOR HSGT SYSTEM
TSAO, C.K.H.	(1970 )	UMTA506	BURIED ROADWAY ANTENNAS FOR VEHICU
TUCK, W.P.	(1968 )	UMTA798	PULSE CODE MODULATION; MOBILE RADI
TUNG, C.	(1969 )	UMTA593	A MATHEMATICAL ANALYSIS OF DYFROPL
TURIN, G.L.	(1956 )	UMTA332	COMMUNICATION THROUGH NOISY, RANDO
TURIN, G.L.	(1958 )	UMTA336	ERROR PROBABILITIES FOR BINARY SYM
TURIN, G.L.	(1961 )	UMTA45	ON OPTIMAL DIVERSITY RECEPTION
TURIN, G.L.	(1962 )	UMTA337	ON OPTIMAL DIVERSITY RECEPTION, II
TURIN, G.L.	(1970 )	UMTA488	SIMULATION OF URBAN LOCATOR SYSTEM
TURIN, G.L.	(1970 )	UMTA870	SIMULATION OF URBAN VEHICLE MONITO
TURIN, G.L.	(1970 )	UMTA871	A STATISTICAL MODEL OF URBAN MULTIT
TUVE, G.L., EDITORS	(1970 )	UMTA875	HANDBOOK OF TABLES FOR APPLIED ENG
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TYLER, R.A.	(1970 )	UMTA163	VEHICLE LOCATION SYSTEMS
U.S. NAVAL HYDROGRAPHY	(19 )	UMTA751	LORAN-C TABLE
U.S. NAVAL OBSERVATORY	(1970A)	UMTA785	TIMES OF COINCIDENCE, NULL, EPHEME
U.S. NAVAL OBSERVATORY	(1970B)	UMTA786	COORDINATES AND EMISSION DELAYS OF
U.S. NAVAL OBSERVATORY	(1970C)	UMTA787	TIMES OF COINCIDENCE, NULL, EPHEME
UENISHI, K.	(1969 )	UMTA187	TRANSMITTER MULTIPLEXING SYSTEM IN
UHLENBECK, G.E.	(1950 )	UMTA155	THRESHOLD SIGNALS
UITERMARK, G.M.	(1963 )	UMTA368	A NEW SERVICE: A COUNTRY WIDE CODE
UMTA	(1969A)	UMTA24	FREQUENCY MANAGEMENT AND VEHICLE C
UMTA	(1969B)	UMTA288	DIRECTORY OF RESEARCH DEVELOPMENT
UMTA	(1970 )	UMTA1074	DIRECTORY OF RESEARCH, DEVELOPMENT
UMTA	(1971A)	UMTA1040	NEWS RELEASE ON A RADICAL NEW PERS
UMTA	(1971B)	UMTA1041	NEWS RELEASE ON THE TEST ON METHOD
UMTA	(1971C)	UMTA1042	NEWS RELEASE ON DIAL-A-RIDE SYSTEM
UMTA	(1971D)	UMTA1072	NEWS RELEASE ON TEST OF ADVANCED M
UMTA	(1971E)	UMTA1073	NEWS RELEASE ON TEST OF ADVANCED M
UMTA	(1971F)	UMTA1077	URBAN TRAFFIC CONTROL SYSTEM/BUS P
UMTA	(1971G)	UMTA1044	NEWS RELEASE ON METHODS OF ELECTRO
UNDERWOOD, A.F.	(1962 )	UMTA970	TRAFFIC PACER
UNIV. OF CALIFORNIA	(19XX )	UMTA285	INSTITUTE OF TRANSPORTATION AND TR
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URBAN SCIENTIFIC CORP.	(1970 )	UMTA437	CLS - THE ELECTRONIC EMERGENCY ALA
USASCII	(19XX )	UMTA1022	USA STANDARD CODE FOR INFORMATION
VAN HORN, A.W.	(1970 )	UMTA358	IMPROVING POLICE COMMAND AND CONTR
VAN TREES, H.L.	(1966 )	UMTA230	ANALOG COMMUNICATION OVER RANDOMLY

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VANDUUREN, A.	(1966),	UMTA284	ALCULATION OF TRAFFIC LIGHT SEQUEN
VANGELDER, H.	(1970 )	UMTA435	EFFICIENT UTILIZATION OF COMMUNICA
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VARIAN DATA MACHINES	(1971 )	UMTA1087	MUNICIPAL COMMAND AND CONTROL SYSTE
VINCENT, W.R.	(1969 )	UMTA137	A STUDY OF LAND MOBILE SPECTRUM UT
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WAGNER, F.A.	(1969 )	UMTA660	IMPROVED CRITERIA FOR TRAFFIC SIGN
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WALKER, P.M.	(19 )	UMTA421	COMPUTERS AND TELECOMMUNICATION: I
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WARD, J.E.	(1970 )	UMTA538	A PLANNING GUIDE FOR A PROJECT IN
WARDELL, E.	(19 )	UMTA662	COMPUTERIZED TRAFFIC SIGNAL SYSTEM
WARREN, W.T.	(1970 )	UMTA489	VEHICLE LOCATION SYSTEM EXPERIMENT
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WATT, A.D.	(1957 )	UMTA260	MEASURED STATISTICAL CHARACTERISTI
WATT, A.D.	(1958 )	UMTA225	PERFORMANCE OF SOME RADIO SYSTEMS
WATTLEWORTH, J.A.	(1965 )	UMTA37	PEAK-PERIOD CONTROL OF A FREEWAY 'S
WATTLEWORTH, J.A.	(1965 )	UMTA854	STUDY TECHNIQUES FOR PLANNING FREE
WATTLEWORTH, J.A.	(1966 )	UMTA35	THE DEVELOPMENT OF AN AUTOMATIC FR
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WATTLEWORTH, J.A.	(1967 )	UMTA843	GAP ACCEPTANCE IN THE FREEWAY MERG
WATTLEWORTH, J.A.	(1967 )	UMTA845	OPERATIONAL EFFECTS OF SOME ENTRAN
WATTLEWORTH, J.A.	(1967 )	UMTA931	PEAK-PERIOD ANALYSIS AND CONTROL O
WATTLEWORTH, J.A.	(1967 )	UMTA932	EVALUATION OF ENTRANCE RAMP CONTRO
WATTLEWORTH, J.A.	(1967 )	UMTA946	A NATIONWIDE STUDY OF FREEWAY MERG
WATTLEWORTH, J.A.	(1968 )	UMTA1097	AN EVALUATION OF TWO TYPES OF FREE
WEIGHTON, D.	(1948 )	UMTA1031	IMPULSIVE INTERFERENCE IN AMPLITUD
WEINREB, S.	(1963 )	UMTA112	A DIGITAL SPECTRAL ANALYSIS TECHNI
WEINSCHEL, B.O., GUEST E	(1967 )	UMTA702	SPECIAL ISSUE OF THE PROC. IEEE ON
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WELDOM, E.J., JR.	(1968 )	UMTA172	PRINCIPLES OF DATA COMMUNICATION
WESTINGHOUSE AIR BRAKE	(19XX )	UMTA921	AUTOMATED TRAIN OPERATION CONTROL
WESTINGHOUSE, MELPAR, W	(1968 )	UMTA605	STUDY OF EVOLUTIONARY URBAN TRANSP
WESTMAN, H.P.	(1968 )	UMTA12	RADIO NOISE AND INTERFERENCE(CHAPT
WHEELER, H.A.	(1969 )	UMTA1026	DEVELOPMENT AND DEMONSTRATION OF W
WHEELER, H.A.	(1970 )	UMTA1055	DEVELOPMENT AND DEMONSTRATION OF W
WHITE, D.R.J.	(1971 )	UMTA1065	ELECTRICAL NOISE AND ELECTROMAGNET
WHITE, H.E.	(1966 )	UMTA272	ATMOSPHERIC NOISE FSK ERROR PROBAB
WHITEHEAD, D.W.	(U969 )	UMTA398	AUTOMATIC TRAFFIC SIGNAL CONTROL S
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WHITSON, R.H.	(1968 )	UMTA840	TRAFFIC CHARACTERISTICS FOR IMPLEM
WHITSON, R.H.	(1968 )	UMTA841	REAL TIME EVALUATION OF FREEWAY QU
WHITSON, R.H.	(1968 )	UMTA936	DETERMINATION OF MERGING CAPACITY
WHITSON, R.H.	(1968A)	UMTA842	DESIGN REQUIREMENTS OF THE CENTRAL
WHITSON, R.H.	(1968B)	UMTA1096	DESIGN SPECIFICATIONS FOR FREEWAY
WHITSON, R.H.	(1969 )	UMTA824	SOME DESIGN CONSIDERATIONS OF DIGI
WHITSON, R.H.	(1969 )	UMTA826	MULTILEVEL APPROACH TO THE DESIGN
WHITSON, R.H.	(1969 )	UMTA829	TRAFFIC CHARACTERISTICS FOR IMPLEM
WHITTEN, J.R.	(1968 )	UMTA205	COMMUNICATION AND CONTROL IN TRANS
WHITTEN, J.R.	(1970 )	UMTA489	VEHICLE LOCATION SYSTEM EXPERIMENT
WHITTEN, R.P.	(1970 )	UMTA511	AN ANALYSIS OF CAPSULE TRANSPORTAT

WILBUR SMITH + ASSOC.	(1969 )	UMTA407	CENTER CITY TRANSPORTATION PROJECT
WILLIAMS, J.	(1969 )	UMTA1038	FREAVY: A FREQUENCY AVAILABILITY C
WILLIAMS, T.G.	(1967 )	UMTA946	A NATIONWIDE STUDY OF FREEWAY MERG
WILSHIRE, R.L.	(1967 )	UMTA427	COMPUTER PUTS MORE GO ON CITY STRE
WILSHIRE, R.L.	(1968 )	UMTA426	COMPUTER TRAFFIC CONTROL REDUCES S
WILSON, D.G.	(1970 )	UMTA388	AUTOMATIC ZONE FARE TICKETING FOR
WILSON, H.H.M.	(1967 )	UMTA378	CARS, COMPUTER AIDED ROUTING SYSTE
WILSON, N.H.M.	(1967 )	UMTA325	CARS, COMPUTED AIDED ROUTING SYSTE
WILSON, N.H.M.	(1969 )	UMTA324	SIMULATION OF A COMPUTER AIDED ROU
WILSON, N.H.M.	(1969A)	UMTA322	MODELING THE CARS SYSTEM, COMPUTER
WILSON, N.H.M.	(1969B)	UMTA381	CARS MODELING TECHNIQUES - ANALYTI
WINTZ, P.A.	(1966 )	UMTA231	SIGNAL DETECTION THEORY
WISEPART, I.S.	(1970 )	UMTA940	DESIGNING THE FIRST FLASH INSTALLA
WOHL, M.	(1968 )	UMTA876	TRAFFIC SYSTEM ANALYSIS FOR ENGINE
WOLMAN, W.W.	(1968 )	UMTA794	A SYSTEMS ANALYSIS OF HIGHWAY COMM
WONG, E.	(1971 )	UMTA1011	STOCHASTIC PROCESSES IN INFORMATIO
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WOODS, K.B.	(1960 )	UMTA248	HIGHWAY ENGINEERING HANDBOOK, FIRS
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WOZNIAK, A.	(19XX )	UMTA724	ELEMENTS AND CIRCUITS FOR AUTOMATI
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YUNG, T.J.	(1969 )	UMTA137	A STUDY OF LAND MOBILE SPECTRUM UT
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ZIOLKOWSKI, F.P.	(1970 )	UMTA506	BURIED ROADWAY ANTENNAS FOR VEHICU

NEGATIVE KEY WORD LIST

A	AND/OR	BIG	CONSIDERATION
ABBREVIATED	ANNIVERSARY	BLANK	CONSIDERATIONS
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ALONG	BELOW	COMPLETED	EASE
ALSO	BENEATH	COMPLETELY	EASIER
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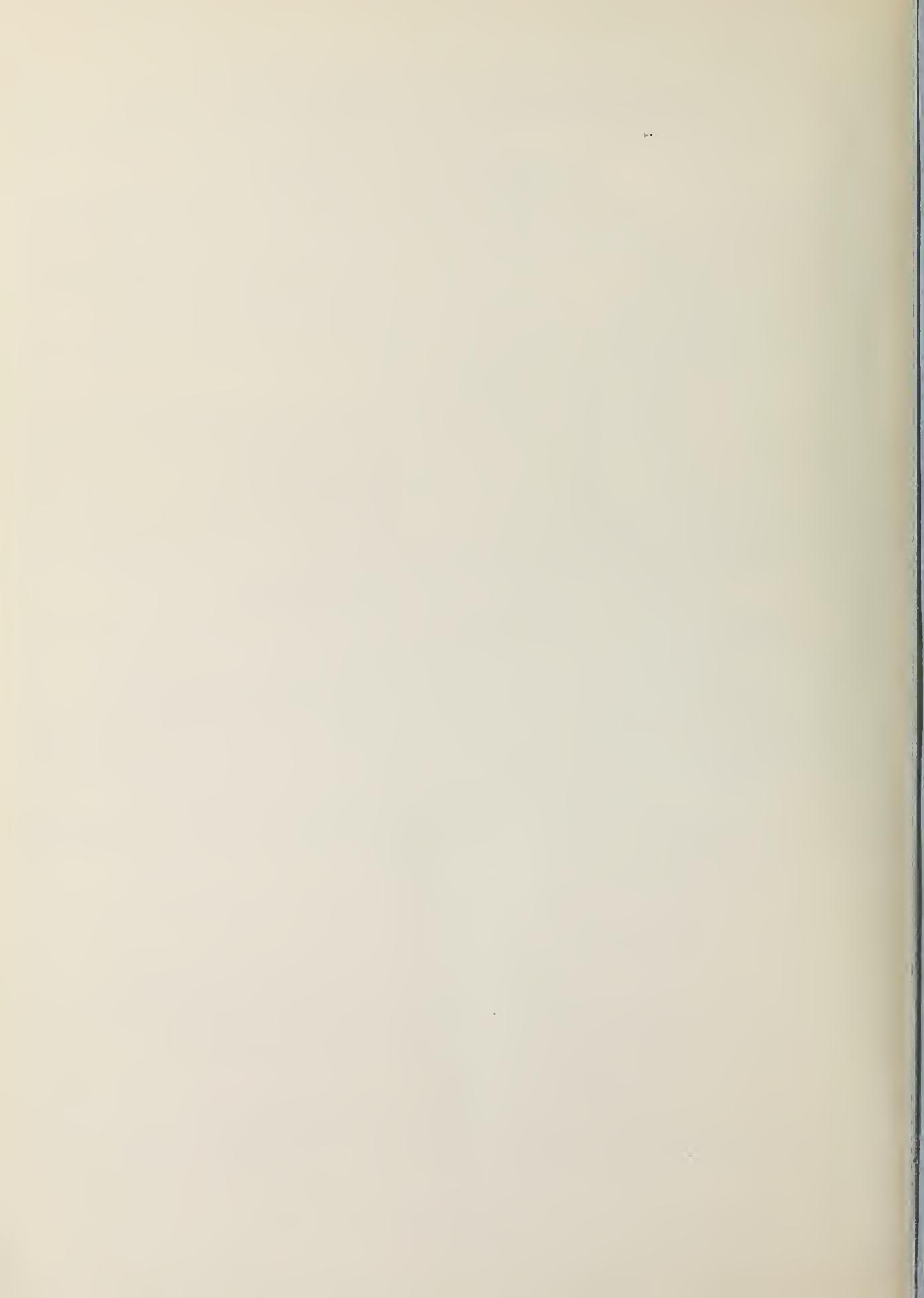
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