



# DEPARTMENT OF TRANSPORTATION

# NEWS

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## URBAN MASS TRANSPORTATION ADMINISTRATION

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The U.S. Department of Transportation's Urban Mass Transportation Administration (UMTA) today announced the publication of a new design tool, the Subway Environmental Design Handbook. Results of the project research have been used in Atlanta, Baltimore, Chicago, New York, Philadelphia and Washington, D.C.

The handbook's documented research will assist subway planners, designers and operators in reducing the costs of subway construction. The book titled Subway Environmental Design Handbook -- Principles and Applications, Vol. I, deals with subway ventilation designs, which impact directly on real estate acquisitions (space for vent shafts), station air conditioning, and heating power requirements, equipment reliability and comfort. Better temperature and humidity control will benefit the riding public.

The handbook contains three principal sections:

- . Methods for establishing comfort criteria
- . Methods for analyzing ventilation and environmental control systems including both manual and computer techniques
- . A variety of control systems

Other sections deal with the use of scale models, information on existing systems, and emergency ventilation. The Handbook contains an extensive bibliography.

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The Handbook is a product of four and one-half years of research directed by the Transit Development Corporation, Inc., Washington, D.C., under sponsorship of UMTA's Office of Research and Development. Thirteen North American transit agencies (including Toronto and Montreal) shared project costs with UMTA. Other new and existing rail transit systems are expected to benefit from the results of the project research.

The Handbook was developed for UMTA and Transit Development Corporation, Inc. by a team of consultants headed by a joint venture of Parsons, Brinckerhoff, Quade and Douglas, Inc.; DeLeuw, Cather and Company; and Kaiser Engineers. Basic research and testing was performed by the California Institute of Technology's Jet Propulsion Laboratory, and Developmental Sciences, Inc.

Subway Environmental Design Handbook -- Principles and Applications, Vol. I, may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The stock number is 050-014-00005-3; the price per copy is \$4.65. (Volume II consists of the Subway Environmental Simulation Computer Program Users and Programmers Manuals, and will be available from the National Technical Information Service, Springfield, Virginia 22161, in late 1975.)

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For further information contact the UMTA Office of Public Affairs at (202)426-4043.

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