PUBLICATIONS RECEIVED

Two new publications released by the U.S. Atomic Energy Commission dealing with atmospheric transport processes and the dispersion of effluents:

Atmospheric Transport Processes. Part 1: Energy Transfers and Transformations. By Elmar R. Reiter, Colorado State University.

This review, the first in a series on atmospheric transport processes, describes the general circulation of the atmosphere. Recently the atmosphere has been considered one of the world's natural resources that is suffering from contamination. Since atmospheric motions will carry the impurities over large distances, the transport processes described will be of vital interest in air-pollution control and planning, including not only industrial pollution but also contamination of the atmosphere by nuclear experiments, but aviation, and by space technology. The author has supplied over 600 references. Available as TID-24868 for $U.S. 3.00

Plume Rise.
By G.A. Briggs, Environmental Science Services Administration.

The author compares alternative plume-rise formulas, including a relatively simple model he has developed, with all available data and gives an overall view of the plume-rise literature. He simplifies and combines results whenever possible and makes clear, practical recommendations for the engineer or meteorologist in predicting the dispersion of effluents in the atmosphere. Meteorological conditions considered in the extensive comparisons include neutral and stable conditions, penetration of inversions, buoyant plumes and nonbuoyant jets, and both calm and windy cases. A separate reference section and author index provide helpful guides to the cited literature. Available as TID-25075 for $U.S. 3.00.

Both available from the Clearinghouse for Federal Scientific and Technical Information, Springfield, Virginia, 22151, U.S.A.