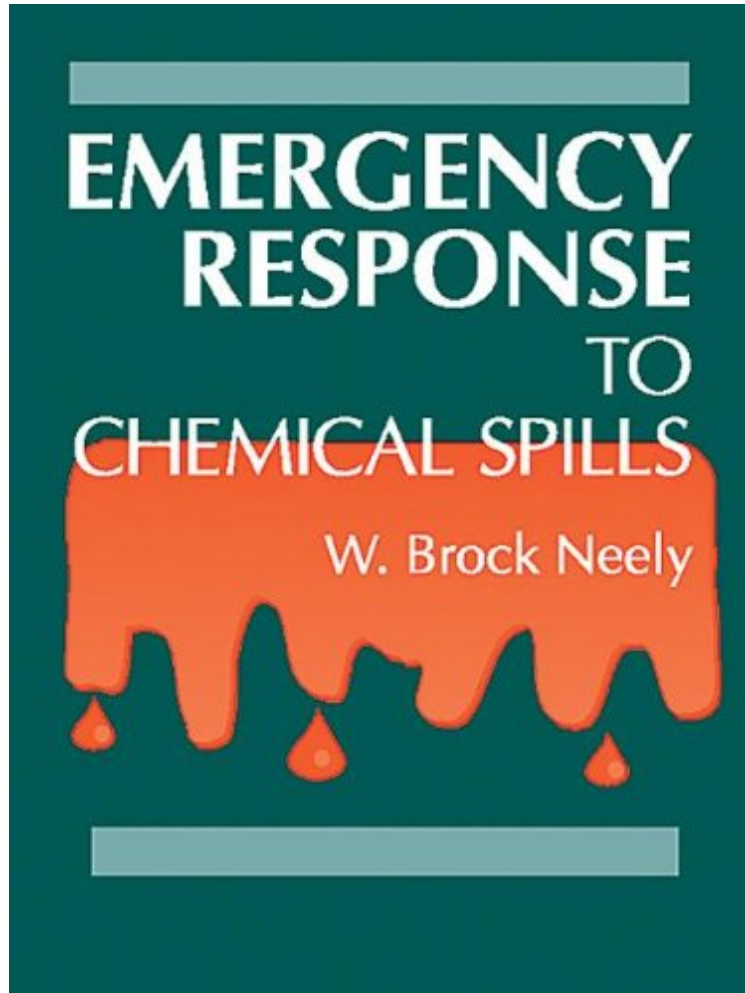


Emergency Response to Chemical Spills - Database

W. Brock Neely

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The amount of chemicals moved by barge, rail, or truck in the United States will more than double by the year 2000. Correspondingly, the number of accidental discharges can be expected to increase as well. Emergency Response to Chemical Spills is a computer software package designed to help predict the concentration profiles of spilled chemicals in the air, water, or on the ground. Algorithms for estimating concentrations, in addition to a database containing 150 common industrial and agricultural chemicals, are included in the program. Physical and biological data for each chemical are provided in addition to interpretive statements that deal with flammability, solubility,

volatility, and "safe" concentration levels. A chemical editor allows users to prepare their own data bases for chemicals not included with the program. For discharges into water, Emergency Response to Chemical Spills can estimate the fraction of a chemical that goes into solution. For all spills, dispersion forces are estimated based on established procedures. The program also features state-of-the-art techniques for modeling evaporation and estimating the extent of slick on the surface of the water. Emergency Response to Chemical Spills runs on IBM or IBM-compatible equipment with DOS 3.0 or higher and at least 512k RAM. Emergency Response to Chemical Spills will be an important predictive tool for hazardous material first-responders, fire departments, federal, state, and local regulatory agencies, occupational health and safety professionals, city and county managers, state emergency planning organizations, hazardous material transporters, and consultants.