Computational Methods in Water Resources

Edited by

L. R. Bentley
University of Calgary, Alb., Canada

J. F. Sykes
University of Waterloo, Ont., Canada

W. G. Gray
University of Notre Dame, South Bend, Ind., USA

C. A. Brebbia
Wessex Institute of Technology, UK

G. F. Pinder
University of Vermont, Burlington, Vt., USA

VOLUME 2

Computational Methods, Surface Water Systems and Hydrology

67/15456

Table of contents

10 *Scaling and heterogeneity*

12 *Flow in surface water*

13 *Water shed modeling*

Cover: The cover illustration is a composite image incorporating elements of remote sensing, Geographical Information Systems (GIS), and numerical modelling. A GIS system is used to unify the management, utilization and visualization of environmental data, either collected directly in the field, obtained by remote sensing technology, or produced as output from a numerical model. In this instance, the capture zone for a pumping well is overlaid on a road network, a watercourse, a finite difference computational grid for groundwater flow, and a digital colour infrared orthophoto. This illustration was developed, in part, using New Jersey Department of Environmental Protection Geographic Information System digital data. Cover illustration courtesy of Stefano Normani.

The texts of the various papers in this volume were set individually by typists under the supervision of each of the authors concerned.