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QUAL2K: a modeling framework for simulating river and stream water quality, version 2.11: documentation and users manual SC Chapra, GJ Pelletier, H Tao Civil and Environmental Engineering Dept., Tufts University, Medford, MA, 1-109 , 2008

National and international interest in finding rational and economical approaches to water-quality management is at an all-time high. Insightful application of mathematical models, attention to their underlying assumptions, and practical sampling and statistical tools are essential to maximize a successful approach to water-quality modeling. Chapra has organized this user-friendly text in a lecture format to engage students who want to assimilate information in manageable units. Comical examples and literary quotes interspersed throughout the text motivate readers to view the material in the proper context. Coverage includes the necessary issues of surface water modeling, such as reaction kinetics, mixed versus nonmixed systems, and a variety of possible contaminants and indicators; environments commonly encountered in water-quality modeling; model calibration, verification, and sensitivity analysis; and major water-quality-modeling problems. Most formulations and techniques are accompanied by an explanation of their origin and/or theoretical basis. Although the book points toward numerical, computer-oriented applications, strong use is made of analytical solutions. In addition, the text includes extensive worked examples that relate theory to applications and illustrate the mechanics and subtleties of the computations.

Hydrodynamics and Transport for Water Quality Modeling presents a complete overview of current methods used to describe or predict transport in aquatic systems, with special emphasis on water quality modeling. The book features detailed descriptions of each method, supported by sample applications and case studies drawn from the authors' years of experience in the field. Each chapter examines a variety of modeling approaches, from simple to complex. This unique text/reference offers a wealth of information previously unavailable from a single source. The book begins with an overview of basic principles, and an introduction to the measurement and analysis of flow. The following section focuses on rivers and streams, including model complexity and data requirements, methods for estimating mixing, hydrologic routing methods, and unsteady flow modeling. The third section considers lakes and reservoirs, and discusses stratification and temperature modeling, mixing methods, reservoir routing and water balances, and dynamic modeling using one-, two-, and three-dimensional models. The book concludes with a section on estuaries, containing topics such as origins and classification, tides, mixing methods, tidally averaged estuary models, and dynamic modeling. Over 250 figures support the text. This is a valuable guide for students and practicing modelers who do not have extensive backgrounds in fluid dynamics.

This book provides essential background knowledge on the development of model-based real-world solutions in the field of control and decision making for water systems. It presents system engineering methods for modelling surface water and groundwater resources as well as water transportation systems (rivers, channels and pipelines). The models in turn provide information on both the water quantity (flow rates, water levels) of surface water and groundwater and on water quality. In addition, methods for modelling and predicting water demand are described. Sample applications of the models are presented, such as a water allocation decision support system for semi-arid regions, a multiple-criteria control model for run-of-river hydropower plants, and a supply network simulation for public services.

The book attempts to covers the main fields of water quality issues presenting case studies in various countries concerning the physicochemical characteristics of surface and groundwaters and possible pollution sources as well as methods and tools for the evaluation of water quality status. This book is divided into two sections: Statistical Analysis of Water Quality Data;Water Quality Monitoring Studies.

As urban areas keep growing, water infrastructure ages, and the requirements on environmental protection become more rigorous, there is a continual need for upgrading water pollution control facilities and restoring degraded urban waters. Such issues are addressed in this book by focusing on five major topics: (a) Upgrading stormwater management facilities, (b) Retrofitting / upgrading combined sewer overflow (CSO) facilities, (c) Optimising/upgrading sewage treatment plant performance, (d) Urban stream restoration, and (e) Challenges in restoring urban environment. Each chapter contains some overview papers followed by research or case study papers. Besides presentations of new

approaches and accomplishments in the field of upgrading and restoration, several papers provide analysis of vast needs in this field in several countries of Central and Eastern Europe, which either recently joined the European Union (EU) or are preparing for accession, and need to comply with the existing EU directives dealing with environmental protection. As such, this book will be of primary interest to researchers and university lecturers dealing with environmental upgrading and restoration, environmental planners from all levels of government, municipal engineers and politicians, and finally the private industry representatives (consultants, private utilities and environmental technology suppliers) searching for new business opportunities among the new or aspiring members of EU.

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