

MATHEMATICAL MODELING SIMPLIFIED

Mathematical Modeling is a cyclical process where students engage in:

- making sense of the situation and posing a modeling problem
- listing quantities and assumptions;
- representing, exploring and creating a solution/model
- interpreting and revising the model
- reporting out

-ECSTEMMA

MODELING CYCLE



"Mathematical Modeling is an equity and empathy lever in E-12 mathematics as it helps students make sense of real-world situations through problem-posing and decision-making."

-ECSTEMMA

Wisconsin resource inspired by math modeling information and resources at www.ecstemma.org
Contact Jennifer Suh jhsuh@msu.edu

Created by: Ron Rodriguez
Boone Unified School District

Knowledge & Identifies

Connecting Cultural and Community Points of Knowledge
Students identify cultural, community, and student knowledge, experiences, and attitudes to inform their learning.

Identifying Mathematics
Students identify and describe mathematical concepts and processes in their learning.

Assessing Student Thinking and Skills
Students identify and describe mathematical concepts and processes in their learning.

Rigor & Support

Building High Cognitive Demand
Students identify and describe mathematical concepts and processes in their learning.

Building Up
Students identify and describe mathematical concepts and processes in their learning.

Assessing Student Thinking and Skills
Students identify and describe mathematical concepts and processes in their learning.

Power & Participation

Distributing Mathematical Authority
Students identify and describe mathematical concepts and processes in their learning.

Building Inter and Power
Students identify and describe mathematical concepts and processes in their learning.

Assessing and Taking Action
Students identify and describe mathematical concepts and processes in their learning.

CULTURALLY RESPONSIVE MATHEMATICS TEACHING (CRMT) FRAMEWORK

Mathematizing the World

Helps focus students on developing their observation and problem posing skills.

Steps:

1. Find an image, video, or object to display.
2. Ask students the following questions:
 - a. What do you notice?
 - b. What do you wonder?
 - c. What questions can be answered using math?
3. Record student responses.
4. Pose a posed question.

If I Knew... Then I Could...

Helps focus students on identifying the important quantities.

Steps:

1. Find an image, video, or object to display.
2. Have students complete the following statement: "If I knew _____, then I could _____."
3. Record student responses.

Reasonable Assumptions

Helps focus students on developing their observation and problem posing skills.

Steps:

1. Find an image, video, or object to display.
2. Have a class group discussion of what they see and how to solve the problem.
3. Identify several "reasonable" assumptions that the situation is not easily available.
4. Have students work in pairs and create a list of reasonable assumptions and unreasonable assumptions for each "reasonable" assumption.

What If... Scenarios

Helps focus students on analyzing what might change in their model when other assumptions or variables are considered.

Steps:

1. Find an image, video, or object to display.
2. Have students complete the following statement: "What if _____, how would the model change?"
3. Record student responses.

THINKING ROUTINES

Simplified Mathematical Modeling Of Wate

A. Eggers-Lura



Simplified Mathematical Modeling Of Wate:

Simplified Mathematical Modeling of Water Quality Hydrosience, inc,1971 *Addendum to Simplified Mathematical Modeling of Water Quality*,1972 **Analyzing Natural Systems** Daniel J. Basta,Blair T. Bower,2015-09-16 This report was undertaken on local regional state and federal levels in the United States to analyse the impact residuals have on environmental quality and to emphasise the need for Residuals Environmental quality management REQM Originally published in 1982 this study brings together information on approaches for analysing natural systems and which factors to consider when choosing an approach This title will be of interest to students of environmental studies as well as professionals and policy makers Modelling Water Flow in Unsaturated Porous Media Adam Szymkiewicz,2012-10-11 The book focuses on two issues related to mathematical and numerical modelling of flow in unsaturated porous media In the first part numerical solution of the governing equations is discussed with particular emphasis on the spatial discretization of highly nonlinear permeability coefficient The second part deals with large scale flow in heterogeneous porous media of binary structure Upscaled models are developed and it is shown that the presence of material heterogeneities may give rise to additional non equilibrium terms in the governing equations or to hysteresis in the averaged constitutive relationships

Methodologies for the Determination of Stream Resource Flow Requirements C. B. Stalnaker,J. L. Arnette,1976 Socioeconomic Environmental Studies Series ,1976 Biological Wastewater Treatment, Revised and Expanded Carlos D.M. Filipe,C.P. Leslie Grady, Jr.,1998-10-15 Written by noted experts in the field sharing extensive academic and industrial experience this thoroughly updated Second Edition covers commonly used and new suspended and attached growth reactors The authors discuss combined carbon and ammonia oxidation activated sludge biological nutrient removal aerobic digestion anaerobic processes lagoons trickling filters rotating biological contactors fluidized beds and biologically aerated filters They integrate the principles of biochemical processes with applications in the real world communicating approaches to the conception design operation and optimization of biochemical unit operations in a comprehensive yet lucid manner **Solar Energy in Developing Countries** A. Eggers-Lura,2013-10-22 Solar Energy in Developing Countries is a documentation report with bibliography on solar energy research and development in developing countries such as those in Asia Central and South America Africa and Middle East Institutions in developed countries with solar activities of interest to developing countries are included This volume consists of seven chapters and opens with an overview of the study followed by a discussion on solar activities of relevance to developing countries focusing on the work of international or supranational organizations such as the United Nations NATO and the European Economic Community The following chapters deal with the state of the art of solar energy applications as well as solar R D work in developing countries including solar distillation solar cooking and drying and solar refrigeration and air conditioning Information and addresses on sources of literature hardware and equipment are also provided along with a detailed and comprehensive bibliography mostly with abstracts This book is

intended for solar scientists and engineers government officials and others who are interested in solar R D work in developing countries

Dictionary Catalog of the Water Resources Center Archives, University of California, Berkeley Water Resources Center Archives (Calif.),1978

Mathematical and Control Applications in Agriculture and Horticulture Axel Munack,H.-J. Tantau,1997 A wide ranging programme was planned covering the principal areas where mathematical models or control engineering can have a major impact on agricultural and horticultural processes and their management Emphasis was placed on applications of models and control in agriculture Focal areas for the meeting included models and control of post harvest processing and grading climate control in plant production and animal houses mathematical models relating to the environmental impacts of agriculture sensing and control methodologies appropriate to agricultural systems information technology impact of uncertainty and forecasting in models demonstration of novel developments in software for agriculture and horticulture and practical implementations of models and control The meeting was structured to maintain maximum interaction between participants in the focal areas of the programme and to permit presentations across a wide range from control methodologies to practical implementation of models

Application of Ecological Modelling in Environmental Management Sven Erik Jørgensen,William J. Mitsch,1983 During the past 10 to 15 years numerous models have been developed to help solve the increasing problems of environmental management Until now however there has been no single work to provide an overview of the models that are now available This two volume work aims to provide such an overview It comprises 14 chapters written by experts in the field among them the editor himself The first 5 chapters provide a general introduction to the subject describe the modelling procedure itself examine the use of the computer in modelling and present unit processes biological and physical chemical which can be used as elements presented in the following chapters The following 9 chapters deal in turn with a particular environmental issue For each an overview is given of the models available and to enable the reader to use at least one of the models in practice details are given and a practical example presented From the book the readers will gain a good knowledge of the wide spectrum of models available today on any of the environmental issues discussed and should also be able to select one of these models and use it himself in practice An extensive reference list is also provided

Selected Water Resources Abstracts ,1974

Proceedings of the National Symposium on Urban Stormwater Management in Coastal Areas, Virginia Tech, Blacksburg, Virginia, June 19-20, 1980 Chin Y. Kuo,1980

Modeling the Fate of Chemicals in the Aquatic Environment Kenneth L. Dickson,Alan W. Maki,John Cairns,1982 THIS BOOK IS A RESULT OF THE FOURTH PELLSTON ENVIRONMENTAL WORKSHOP HELD AUGUST 16 21 1981 THIS WORKSHOP AND PREVIOUS MEETINGS HAVE EXAMINED METHODS OF ASSESSING HAZARDS OF CHEMICALS IN THE AQUATIC ENVIRONMENT HAZARD ASSESSMENT IT HAS BEEN DETERMINED REQUIRES AN UNDERSTANDING OF THE RELATIONSHIP BETWEEN THE CONCENTRATION OF CHEMICALS CAUSING AN ADVERSE EFFECT ON AQUATIC LIFE AND ENVIRONMENTAL EXPOSURE CONCENTRATIONS

MATHEMATICAL ENVIRONMENTAL FATE MODELS ARE SUGGESTED AS A TOOL FOR PREDICTING ENVIRONMENTAL EXPOSURE CONCENTRATIONS OF CHEMICALS THIS BOOK PRESENTS A STATE OF THE ART OVERVIEW OF THE USE OF THESE MODELS FOR DECISION MAKERS IN ASSESSING THE HAZARDS OF CHEMICALS IN THE AQUATIC ENVIRONMENT AUTHORS SUMMARY ABRIDGED Renewable and Sustainable Energy II Nan Qi Ren,Lam Kin Che,Bo Jin, Ren Jie Dong,Hai Quan Su,2012-05-14 Selected peer reviewed papers from the 2012 International Conference on Energy and Environmental Protection ICEEP 2012 June 23 24 2012 Hohhot China **Performance and Modeling of Nitrification in the Biological Fluidized Bed** David King Stevens,1983 **Annual Book of ASTM Standards** ASTM International,American Society for Testing and Materials,2003 **The Japan Shipbuilding Information Notes** ,1982
 Gmelins Handbuch der anorganischen Chemie ,1974 **Hydrology Papers** Colorado State University,1963

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