

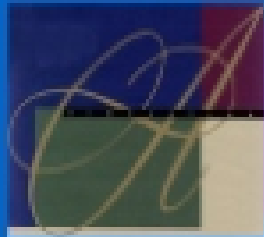
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Chapter 1

What is Simulation?

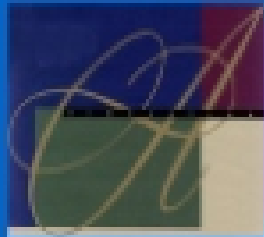


Dr. Jason Merrick



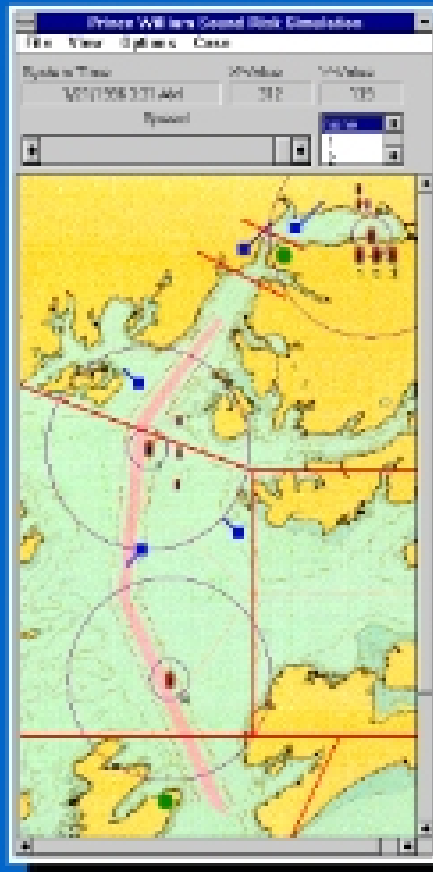
Operations Research

- A mathematical model is an abstraction of the real world.
- The aim of operations research is to use mathematical modeling to assist in a decision making process.
- Suppose that a decision maker has to make a decision concerning changes to an existing system or the design of a new system.
- What options are available to predict the new system's performance?



What is Simulation?

- **A *simulation* is a computer program that imitates, or simulates, the operations of real world systems or processes.**



← Simulation
vs.
Real World →

