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FLUID SIMULATION SIGGRAPH 2007 Course Notes Robert Bridson1 University of British Columbia Computer Science Department 201-2366 Main Mall Vancouver, V6T 1Z4, Canada

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the computer hardware which performs the actual calculations the human being who inspects and interprets the simulation results CFD is a highly interdisciplinary research area which lies at the interface of

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### **MODULE 1 (COMPUTER MODELING AND SIMULATION) INTRODUCTION**

Computational fluid dynamics (CFD) is the science of predicting fluid flow, heat transfer, mass transfer, chemical reactions, and related phenomena by solving the mathematical equations which

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Computer simulation was pioneered as a scientific tool in meteorology and nuclear physics in the period directly following World War II, and since then has become indispensable in a growing number of disciplines.

### **Computer Simulations in Science (Stanford Encyclopedia of**

Computer simulation is the reproduction of the behavior of a system using a computer to simulate the outcomes of a mathematical model associated with said system.

### **Computer simulation - Wikipedia**

Computational fluid dynamics (CFD) is a branch of fluid mechanics that uses numerical analysis and data structures to analyze and solve problems that involve fluid flows. Computers are used to perform the calculations required to simulate the free-stream flow of the fluid, and the interaction of the fluid ( liquids and gases ) with surfaces defined by boundary conditions .

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