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While modeling and simulation (M&S) is an empirical activity, and has been labelled as the tool of last resort in the past, a theory has been developing to provide the right conceptual framework for its conduct. This theory will be available to AI developers when progress based on data-centric deep learning plateaus.

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Modeling and simulation (M&S) is the use of models (e.g., physical, mathematical, or logical representation of a system, entity, phenomenon, or process) as a basis for simulations to develop data utilized for managerial or technical decision making. In the computer application of modeling and simulation a computer is used to build a mathematical model which contains key parameters of the physical model.

Modeling and simulation - Wikipedia

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Scientific modelling - Wikipedia

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Theory of Modeling and Simulation. Bernard P. Zeigler, Alexandre Muzy, Ernesto Kofman. A consensus on the fundamental status of theory of modeling and simulation is emerging – some recognize the need for a theoretical foundation for M&S as a science. Such a foundation is necessary.

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As subsequent chapters in this report will describe, theory, modeling, and simulation (TM&S) play a significant role in almost every branch of nanotechnology. TM&S consists of three distinct components. A theory can be defined as a set of scientific principles that explains phenomena—a succinct description of a class of problems.

Investigative Tools: Theory, Modeling, and Simulation ...

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Methods of modeling and simulation are fragmented across disciplines making it difficult to re-use ideas from other disciplines and work collaboratively in multidisciplinary teams. Model building and simulation has been made easier and faster by riding piggyback on advances in software and hardware.

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The increased computational power and software tools available to engineers have increased the use and dependence on modeling and computer simulation throughout the design process. These tools have given engineers the capability of designing highly complex systems and computer architectures that were previously unthinkable.

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