MATHEMATICAL MODELS Definitions



A mathematical model is a description of a system using mathematical concepts and language.

. . . .

A mathematical model usually describes a system by a set of variables and a set of equations that establish relationships between the variables.

. . .

Mathematical models are used not only in the natural sciences (such as physics, biology, earth science, meteorology) and engineering disciplines (e.g. computer science, artificial intelligence), but also in the social sciences (such as economics, psychology, sociology and political science); physicists, engineers, statisticians, operations research analysts and economists use mathematical models most extensively.

A **model** may help to explain a system and to study the effects of different components, and to make predictions about behavior.

Mathematical Models Of Sociology

Minjie Lin

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