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The special initial displacements of a system that cause it to vibrate harmonically are called 'mode shapes' for the system. If a system has several natural frequencies, there is a corresponding mode of vibration for each natural frequency. The natural frequencies are arguably the single most important

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dynamics is a  
methodology and  
mathematical modeling  
technique to frame,  
understand, and  
discuss complex issues  
and problems.

Originally developed in  
the 1950s to help

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corporate managers improve their understanding of industrial processes, SD is currently being used throughout the public and private sector for policy analysis and design.

## **System dynamics - Wikipedia**

Engineering system dynamics focus on deriving mathematical models based on simplified physical



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representations of actual systems, such as mechanical, electrical, fluid, or thermal, and on solving the mathematical models. The resulting solution is utilized in design or analysis before producing and testing the actual system.

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## **Engineering System Dynamics Editions**

System dynamics was  
created during the

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mid-1950s by Professor Jay W. Forrester of the Massachusetts Institute of Technology.

Forrester arrived at MIT in 1939 for graduate study in electrical engineering. His first research assistantship put him under the tutelage of Professor Gordon Brown, the founder of MIT's Servomechanism Laboratory.

## **Origin of System**

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**Dynamics**

First published in 2001, Forbes T. Brown's Engineering System Dynamics: A Unified Graph-Centered Approach introduced students to a unique and highly successful approach to modeling system dynamics using bond graphs.

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