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In mathematics, catastrophe theory is a branch of bifurcation theory in the study of dynamical systems; it is also a particular special case of more general singularity theory in geometry. Bifurcation theory studies and classifies phenomena characterized by sudden shifts in behavior arising from small changes in circumstances, analysing how the qualitative nature of equation solutions depends on the parameters that appear in the equation. This may lead to sudden and dramatic ...

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### Tim Poston - Wikipedia

G.M. Robinson, in International Encyclopedia of Human Geography, 2009. Catastrophe Theory. Research on discontinuities has been termed bifurcation or catastrophe theory, and focuses on critical values of system parameters at which some unusual behavior of the system can occur.The simple catastrophe is the cusp catastrophe which involves one variable (x) and one (u) or two (u 1 and u 2 ...

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