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Von Neumann made major contributions to many fields, including mathematics (foundations of mathematics, functional analysis, ergodic theory, representation theory, operator algebras, geometry, topology, and numerical analysis), physics (quantum mechanics, hydrodynamics, and quantum statistical mechanics), economics (game theory), computing (Von Neumann architecture, linear programming, self ...

John von Neumann - Wikipedia

The paper deals with numerical analysis of deformations and relative displacements (relative settlement, relative deflection and flexibility) of the shallow square foundations depending on the variable relative stiffness. For solution of the problem finite element method was used with theoretical assumptions of the linearly elastic half-space.

Numerical Analysis of Deformations of the Shallow Square ...

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Numerical analysis is the study of algorithms that use numerical approximation (as opposed to symbolic manipulations) for the problems of mathematical analysis (as distinguished from discrete mathematics). Numerical analysis naturally finds application in all fields of engineering and the physical sciences, but in the 21st century also the life sciences, social sciences, medicine, business and ...

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Numerical analysis of complex PDE models in the Sciences, Erwin Schrödinger Institute, Vienna, Spring-Summer, 2018 Joint CDT Conference, 17-20 April 2018, Oxford 14th Serbian Mathematical Congress, 16-19 May, 2018, Kragujevac, Serbia

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