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However, this approach leads to strongly

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nonlinear ordinary or partial differential equations; there are usually no analytical solutions for these equations. This book presents a variety of various efficient methods, including Homotopy methods, Adomian methods, reduced order methods, numerical methods, for solving the nonlinear

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governing equation of
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actuators, nano-
tweezers, nano-bridges,
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and rotational
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due to physical
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dispersion forces,
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size-dependency, are considered in the governing equations. For each solution method several examples are solved in order to better understanding the proposed methods. This is an important resource for both materials scientists and mechanical engineers, who want to understand

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more about the
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mechanical behaviour.

Beam theories are
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analyze civil,
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structures. Many beam approaches have been proposed during the last centuries by eminent scientists such as Euler, Bernoulli, Navier, Timoshenko, Vlasov, etc. Most of these models are problem dependent: they provide reliable results for a given problem, for instance a given section and cannot be applied to

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proposes a new original
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beam theory that
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in the last quarter of a century. The Carrera Unified Formulation (CUF) has hierarchical properties, that is, the error can be reduced by increasing the number of the unknown variables. This formulation is extremely suitable for computer implementations and can deal with most typical engineering

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employing plate/shell
and 3D formulations.

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