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methods or variational
methods will be put in
a wider context. It will
be shown that the
virtual work equation is

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a facet of a comprehensive and consistent theory. In the classical structural mechanics, two energy principles have always played an important role. They are the

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Energy principles in structural mechanics express the relationships between

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stresses, strains or deformations, displacements, material properties, and external effects in the form of energy or work done by internal and external forces. Since energy is a scalar quantity, these relationships provide convenient and alternative means for formulating the governing equations of deformable bodies in solid mechanics. They

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can also be used for obtaining approximate solutions of fairly complex systems, by

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Variational approaches rest on minimising the Feynman variational bound (Feynman, 1972). In variational Bayes the free energy represents a bound on the log-evidence.

Variational methods

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are well established in
the approximation of
densities in statistical
physics (e.g.,
Weissbach et al.,
2002) and were

Variational free energy and the Laplace approximation

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having its own length,
area of cross section,
and modulus are. JN
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Because free energy
can be expressed as
the expected energy of
observations under the
variational density

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minus its entropy, it is also related to the maximum entropy principle. Finally, because the time average of energy is action, the principle of minimum variational free energy is a principle of least action .

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