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within the framework of plasticity theory. In the following the basic plasticity theory is described and examples demonstrating the above mentioned differences are given. 2.1 The yield criterion As described in the Section 1 an elastic limit exists above which the material becomes plastic.

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bifurcations in large-scale finite element analysis of structures and the selection of the correct, i.e. stable, post-bifurcation path represents a challenge in computational plasticity. The purpose of the present lecture is to give an

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