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# Conservative loadings: forces, moments and beyond



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Link to the Microsoft Teams platform: [Click here](#)

The aim of the lecture is to recall some notions on the conservative and non-conservative external loadings. It is well-known that for non-conservative loadings one faces some peculiarities in instability since a dynamic criterion of instability is required. The general definition is given. Some examples are considered. A particular attention is paid to external moments. For example, it is demonstrated that a dead (constant) moment is not conservative, in general.

*Prof. Eremeyev received his PhD in Physics and Mathematics in 1990 from Rostov State University (Russia). He is a member of several international organisations, including the M&MoCS (since 2012), the American Mathematical Society (since 2014) and the Polish Society of Theoretical and Applied Mechanics (since 2018). He has been an Associate Professor since 1996 and has taught at Martin Luther University Halle-Wittenberg and Otto-von-Guericke-University Magdeburg, Germany, and, in Poland, at Rzeszów University of Technology and at Gdansk University of Technology. Since October 2020 he is Associate Professor of Structural Mechanics at the University of Cagliari.*