



Lecture No. 85

Czech Society for Mechanics and Institute of Thermomechanics, CAS

invite you to a Research seminar on 27/02/2020

Structural Design and Analysis at OHB System AG

given by

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This lecture gives an introduction to the field of structural design and analysis of optical space instruments at OHB System AG. OHB System AG is one of the three leading space companies in Europe which specializes in design and manufacturing of high-tech solutions for space, science and industrial applications. To start the lecture, special considerations of spacecraft structures are discussed and the typical tasks of a structural development engineer are presented. Next, design highlights of optical instrument structures and their analysis methodologies are reviewed. After a brief discussion of topology optimization and additive manufacturing used for design and manufacturing of optical space instruments, thermo-elastic aspects of spacecraft structures are addressed. Finally, the process of assembly, integration and testing (AIT) is discussed, which typically concludes the hardware development-cycle of space structures.

The lecture will be held on Thursday, February 27, 2020 at 2PM in the building of the Institute of Thermomechanics (lecture room B), Dolejškova 5, 182 00 Prague 8