On steel structures designing subjected to extreme dynamic loading conditions

Wojciech Sumelka, Tomasz Łodygowski
Poznan University of Technology, Poznan, POLAND
{wojciech.sumelka, tomasz.lodygowski}@put.poznan.pl

Crucial aspects of the steel structures designing subjected to extreme loading conditions are under consideration. It is known that there is lack of strict standards for designing of such structures. The possible technical document should established type of the material models correct for such designing process, type of numerical method to be used to obtain the satisfactory results and also set of limit values. Similar situation concerns rules for experimental testing of the steel samples to obtain characteristic parameters necessary for modelling. In the paper the attempt on the methodical filling of this lack is taken up.