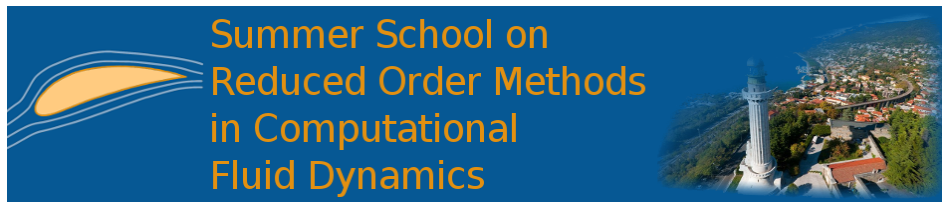


Summer School on Reduced Order Methods in Computational Fluid Dynamics



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Reduced Order Methods for Boundary Conditions Estimation

Wednesday, July 10, 2019 4:33 PM (3 minutes)

In continuous casting machinery, the molten metal solidifies in a mold. In order to control the casting process, a proper knowledge of the heat flux between the mold and the metal is crucial. This boundary condition can be estimated using thermocouples measurements inside the mold and solving an inverse problem. In this research we exploit model order reduction techniques to achieve an online solution of this problem.

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