

KO-MIX

Interní seminář pracovníků KMD

Srdečně zveme pracovníky KMD, KAP a další zájemce z řad veřejnosti na přednášku pořádanou v rámci odborného semináře *KO-MIX*

Two-periodic cooling process in glass forming

Přednáší: RNDr. Petr SALAČ, CSc. (KMD, FP TU v Liberci)

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(Univerzitní nám. 1410/1, Liberec, budova G areálu TUL - 4. patro)

Abstrakt přednášky:

This work steps from the problem of the shape optimization presented in [1], where a rotationally symmetric system of mould, glass piece, plunger and plunger cavity was considered. The state problem is given as a stationary heat conduction-convection process for mean values of temperature. The system has given heat source and is cooled by flowing water inside the cavity and outside by environment. The design variable is taken to be the shape of inner surface of the plunger cavity. Existence and uniqueness of the state problem solution and existence of a solution of the optimization problem in the stationary case were proved in [1].

In this work we introduce time periodical state problem as the second step in the simulation of the real industrial process in the glass forming.

Bibliography:

[1] P. Salač: *Optimal Design of the Cooling Plunger Cavity*. In: *Appl. Math.*, 58 (2013), 405 – 422.

Za organizátory semináře srdečně zve

RNDr. Václav Finěk, Ph.D.