

# OPTIMAL DESIGN OF DISKS REINFORCED WITH FIBER NET

Summary: The results of investigation in the area of analysis and optimal design of thin and linearly elastic disks reinforced with fiber net are presented in the paper. The object of analysis, its mathematical model and relevant task for this type design problem are derived. To solve of the problem, the optimization procedure based on the evolutionary algorithm is proposed. The problem is illustrated by simple numerical examples.

Keywords: fibrous composite, design problem, evolutionary algorithm