

# Selected problems of modelling of construction elements with variable material and geometrical properties

Habilitation thesis summary

## Content

1.	Main problems of the dissertation.....	3
2.	Dynamical stability of variable cross section bars – first natural frequencies and buckling critical forces.....	7
3.	Stability and vibrations of micro-nonhomogeneous plate band resting on elastic subsoil.....	20
4.	Free vibrations of non-homogeneous plates – application of the tolerance averaging technique.....	28
5.	Method of calculation of non-homogeneous, rotationally symmetric circular plates, supported on piles.....	37
6.	Summary.....	50