## MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

**O. M. BEKETOV NATIONAL UNIVERSITY**

**of URBAN ECONOMY in KHARKIV**

**P. Firsov,**

**О. Lugchenko,**

**A. Naboka**

**INNOVATIVE STRUCTURES, MATERIALS AND ENGINEERING SYSTEMS**

LECTURE NOTES

*for all educational forms Master’s Degree specialty*

*192 – Building Industry and Civil Engineering,*

*educational program “Civil and Industrial Engineering”)*

**Kharkiv**

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Authors:

PhD (Engineering), Ass. Professor P. Firsov,

PhD (Engineering), Ass. Professor O. Lugchenko,

PhD (Engineering), Ass. Professor A. Naboka

Reviewer

**S. Zolotov** PhD (Engineering), Ass. Professor, Ass. Professor of Building Structures Department of O. M. Beketov National University of Urban Economy in Kharkiv

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