## MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

**O. M. BEKETOV NATIONAL UNIVERSITY**

**of URBAN ECONOMY in KHARKIV**

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**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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