

بسم الله الرحمن الرحيم

# *The Behavior Of Local Stone Masonry*

*Thesis of Master's Degree Research*

## سلوك جدران الحجر الحاملة المحلية

خطة بحث لنيل درجة الماجستير

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## **Introduction:**

Multiple-leaf stone masonry is commonly used in Yemen in construction of residential and public buildings. Most engineers in Yemen don't have any information to design or analyse of masonry elements, and that is due to scarcity of available information. Indeed, most of such information's are known elsewhere according to their local empirical and design practice. These empirical practices are not available in Yemen.

## **Objectives:**

The objective of this research is to investigate the practice of local multi-leaf masonry and to present results of experimental work in order to come up with the real behaviour of this type of masonry.

## **Methodology:**

The research herein includes the following parts:

- Literature Review
- Structural Analysis
- Experimental Work
- Practice Investigation
- Data Analysis
- Results and Conclusions
- Recommendations

**Tools and equipment:**

All the experimental work will be carried out in the faculty of engineering in Sana'a University. The experimental work will include, but not limited to, mortar tests, stone units, and masonry specimens.

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