



**ICCAE**

Military Technical College  
Kobry Elkobbah,  
Cairo, Egypt

7<sup>th</sup> International Conference  
On Civil & Architecture  
Engineering

## **DESIGN OF PROTECTIVE SYSTEMS FOR FORTIFIED STRUCTURES**

**BRIG. GEN. DR. MOSTAFA M. ABDEL-WAHAB**

### **ABSTRACT**

The design and analysis of protective systems for fortified structures is developed based on different types of composite suppressive systems. These systems can be attenuate and absorb the products of explosion such as ancient and reflected shockwaves, fragments. The suppressive systems can be protecting the fortified and protective structures with minimum time, weight of material and minimum coast.

Using the AUTO-DYNE software a simulation program for the design system can be developed to study the behavior of fortified structures with composite suppressive elements under the effects of smart antiburried fortification bomb.