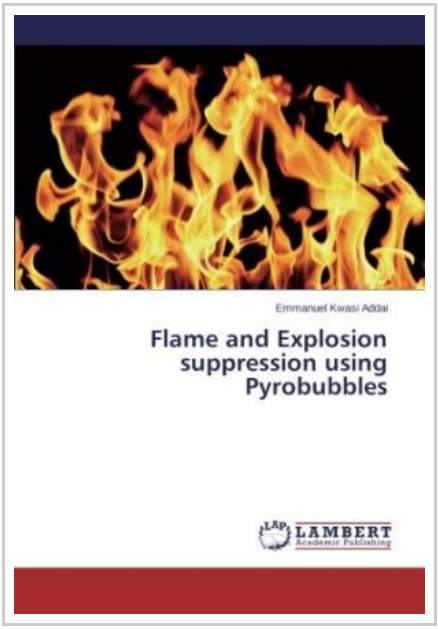

Flame and Explosion suppression using Pyrobubbles

By Emmanuel Kwasi Addai

LAP Lambert Academic Publishing Sep 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x4 mm. This item is printed on demand - Print on Demand Neuware - An alternative fire extinguishing agent 'pyrobubbles' was investigated to suppress the spread of gaseous flame after explosion. Pyrobubbles are foam-like granules made from silicon dioxide or inorganic raw materials with a diameter of 1.5 to 5.0 mm and have the following superior properties, not inflammable, outstanding asphyxiation, and melting point above 1200 °C, floatable, very high flowability and quick filling ability, heat and cold insulation. Using pyrobubbles as fire extinguishing agent was tested for its ability to suppress the spread of gaseous flames after explosion. In order to demonstrate this experimentally, a flame quenching effect of pyrobubbles was tested in the laboratory under defined conditions with different explosible gas mixtures such as methane and hydrogen gas in two different laboratory equipments. In this book, the various mechanisms of explosion and detonations were discussed. The various methods to supressed gaseous flames as well as flame arrestors were also discussed. The results indicate that pyrobubbles are more effective with respect to suppression of gaseous flame. 68 pp. Englisch.

Reviews

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