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MUTATIONS THEORETICAL ANALYSIS OF AIR SEPARATION EQUIPMENT IN THE EXPLOSION

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Abstract

The air separation plant explosion accidents often in a sudden jump in the form of continuous to discontinuous change in the form of this mutation using traditional calculus methods are difficult to describe. Catastrophe theory based on cusp catastrophe model for an air separation plant explosion carried out principal component analysis, and data fitting with established ASU catastrophe theory mathematical expressions. With the established model space geometry accident procedures are described. The results show that insecurity will cause any air separation plant of major explosions, air separation equipment of insecurity, the more its more unstable state, the more prone to particular major accident.

Keywords : Catastrophe theory; Air separation equipment; explosion

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