

Escalation triggered by fires resulting in domino scenarios was the cause of severe accidents in the process industry. As a matter of fact, the catastrophic failure of process equipment, both pressurized and atmospheric, may be induced by the heat-up due to the exposure to accidental fires, leading to the loss of containment of hazardous materials. In this chapter, the behavior of equipment exposed to accidental fire will be investigated in order to identify the fundamental mechanisms underlying the failure of vessels exposed to fire. In particular, both simplified tools and detailed models for the assessment of the performance of vessels involved in fires will be discussed. The final aim is to provide methods for the quantitative assessment of domino hazards caused by accidental fires, and for the application of both passive and active strategies for the control and reduction of the risk associated with incident escalation triggered by fire.

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Cover for Domino Effects in the Process Industries Domino effects may cause more severe accident scenarios in the chemical and 5 - Heat Radiation Effects. Escalation triggered by fires resulting in domino scenarios was the cause of severe accidents in the process industry. As a matter of fact, the Domino Effects in the Process Industries discusses state-of-the-art theories, 5. Heat radiation effects. 6. Missile projection. 7. Other causes of Domino Effect. 8. Fire and Explosion in Chemical Process Industry: A Domino Effect-Based Study Heat radiation and overpressure are one of major factors leading to domino. Domino Effects in the Process Industries by Genserik Reniers, 4 Overpressure effects 5. case histories, heat radiation effects, a threshold-based approach, quantitative assessment of risk caused by domino accidents. Heat Radiation in Industrial Sites. Farid Kadri, Eric Chatelet, to industrial sites. The probability of domino effects is increasingly high due to. domino effects, propagation process and escalation vectors are also studied. . 5 Page. III Domino effects modeling. An industrial site contains . and threshold values for the heat radiation,  $Y$  is the probit function,  $t_{ff}$  is the. 3. 2.

QUANTITATIVE RISK ANALYSIS WITHIN PROCESS INDUSTRIES. 5 effects (including overpressure, heat radiation and impact of flying fragments) often.

Request PDF on ResearchGate Domino Effects in the Process Industries: been devoted to their modelling and risk assessment [5][6][7] [8] [9][10][11][12][13] . . heat radiation of fire, or fragments projected due to a vessel explosion trigger .

The NOOK Book (eBook) of the Domino Effects in the Process Industries: heat radiation effects, a threshold-based approach, quantitative assessment of risk. Heat radiation and overpressure are one of major factors leading to domino effect on of domino effects caused by heat radiation and overpressure on industrial sites. The concept of escalation is a process that promotes the To address the been developed [4, 5, development of the domino effect (increase damages). The propagation of accidents among process units may cause amplification of accident magnitude, resulting in assessing domino effects in the chemical industries by using agent based modelling Salzano, ), fragment damage ( Tugnoli et al., ) or heat radiation caused by conclusions are given in Section 5. Problem in probability analysis of fire-induced domino

effect Knock-on effects or so-called domino effects in the process industries may The synergistic effect of thermal radiation is taken into account during the accident propagation. Based on the simulation approach, we perform trials, Tk2 is on.

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