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Process Plant Layout Optimization with Uncertainty and Considering Risk

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Highlights

- Introducing an integrated approach for process plant layout problem with concurrent consideration of economic and safety aspects.
- Developing a new mathematical model for Facilities Layout with considering domino hazard score for different fire and explosion scenarios and probability of death for toxic release.
- Calculating damage probability function for overpressure caused by facility explosion, using probit functions.
- Considering various risk indexes which extracted from the safety engineering and chemistry fields.

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