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a resource for individuals responsible for siting decisions this guidelines book covers siting and layout of process plants including both new and expanding facilities this book provides

comprehensive guidelines in selecting a site recognizing and assessing long term risks and the optimal lay out of equipment facilities needed within a site the information presented is applicable to us and international locations note cd rom dvd and other supplementary materials are not included as part of ebook file

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the book addresses a growing policy problem confronting all democratic nations by exploring the lessons to be learned from international siting experiences it will prove invaluable reading for academics policymakers government agencies ngos and other societal interests involved in environmental and siting issues book jacket

in this work a new approach to optimize facility layout for toxic release fire and explosion scenarios is presented by integrating a risk analysis in the optimization formulation safer assignments for facility layout and siting have been obtained accompanying with the economical concepts used in a plant layout the new model considers the cost of willing to avoid a fatality i e the potential injury cost due to accidents associated with toxic release near residential areas for fire and explosion scenarios the building or equipment damage cost replaces the potential injury cost two different approaches have been proposed to optimize the total cost related with layout in the first phase using continuous plane approach the overall problem was initially modeled as a disjunctive program where the coordinates of each facility and cost related variables are the main unknowns then the convex hull approach was used to reformulate the problem as a mixed integer non linear program minlp that identifies potential layouts by minimizing overall costs this approach gives the coordinates of each facility in a continuous plane and estimates for the total length of pipes the land area and the selection of safety devices finally the 3d computational fluid dynamics cfd was used to compare the difference between the initial layout and the final layout in order to see how obstacles and separation distances affect the dispersion or overpressures of affected facilities one of the cfd programs ansys cfx was employed for the dispersion study and flame acceleration simulator flacs for the fires and explosions in the second phase for fire and explosion scenarios the study is focused on finding an optimal placement for hazardous facilities and other process plant buildings using the optimization theory and mapping risks on the given land in order to calculate risk in financial terms the given land is divided in a square grid of which the sides

have a certain size and in which each square acquires a risk score these risk scores such as the probability of structural damage are to be multiplied by prices of potential facilities which would be built on the grid finally this will give us the financial risk accompanying the suggested safety concepts the new model takes into account construction and operational costs the overall cost of locations is a function of piping cost management cost protection device cost and financial risk this approach gives the coordinates of the best location of each facility it estimates the total piping length once the final layout is obtained the cfd code flacs is used to simulate and consider obstacle effects in 3 d space the outcome of this study will be useful in assisting the selection of location for process plant buildings and risk management

this book has been written to address many of the developments since the 1st edition have improved how companies survey and select new sites evaluate acquisitions or expand their existing facilities this book updates the appendices containing both the recommended separation distances and the checklists to help the teams obtain the information they need when locating the facility within a community when arranging the processes within the facility and when arranging the equipment within the process units

this volume explores the management of conflicts arising from the siting of unwanted projects in the asiapacific a region inadequately explored by the relevant literature the work includes studies on a variety of locations including hong kong japan mainland china taiwan vietnam singapore and others contributions are drawn from several leading scholars intimately familiar with the locations under study and employ theoretical comparative and policybased approaches to analysis of environmental conflict risk management and public participation the editors also provide introductory and concluding sections in which the siting issues under discussion are summarized and contextualized the result is a collection that serves as an invaluable aid and source of information for policymakers environmentalists and scholars of the asiapacific and elsewhere

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