

# Perry Chemical Engineer Handbook 8th Edition

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interest in green chemistry and clean processes has grown so much in recent years that topics such as fluorous biphasic catalysis metal organic frameworks and process intensification which were barely mentioned in the first edition have become major areas of research in addition government funding has ramped up the development of fuel cells and biofuels this reflects the evolving focus from pollution remediation to pollution

prevention copiously illustrated with more than 800 figures the third edition provides an update from the frontiers of the field it features supplementary exercises at the end of each chapter relevant to the chemical examples introduced in each chapter particular attention is paid to a new concluding chapter on the use of green metrics as an objective tool to demonstrate proof of synthesis plan efficiency and to identify where further improvements can be made through fully worked examples relevant to the chemical industry new and expanded research topics metal organic frameworks metrics solid acids for alkylation of isobutene by butanes carbon molecular sieves mixed micro and mesoporous solids organocatalysis process intensification and gas phase enzymatic reactions hydrogen storage for fuel cells reactive distillation catalysts in action on an atomic scale updated and expanded current events topics industry resistance to inherently safer chemistry nuclear power removal of mercury from vaccines removal of mercury and lead from primary explosives biofuels uses for surplus glycerol new hard materials to reduce wear electronic waste smart growth the book covers traditional green chemistry topics including catalysis benign solvents and alternative feedstocks it also discusses relevant but less frequently covered topics with chapters such as chemistry of long wear and population and the environment this coverage highlights the importance of chemistry to everyday life and demonstrates the benefits the expanded exploitation of green chemistry can have for society

green chemistry promotes improved syntheses as an intellectual endeavour that can have a great impact both on preserving and utilizing our planet's finite resources and the quality of human life this masterful accomplishment provides an evaluation of environmental impact metrics according to life cycle assessment analysis based on the mackay compartment environmental model and guinée environmental impact potentials formalism assumptions limitations and dealing with missing data are addressed best literature resources for finding key toxicological parameters are provided and applied to individual reactions as well as entire synthesis plans in order to target molecules of interest key features provides an evaluation of environmental impact metrics according to life cycle assessment analysis summarises safety hazard metrics according to the same model as life cycle assessment including occupational exposure limits risk phrases flammability and other physical parameters the book will be useful in a range of chemistry courses from undergraduate to advanced graduate courses whether based in lectures tutorials or laboratory experiments

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