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molecular structure unit v states of matter gases and liquids unit vi chemical thermodynamics unit vii equilibrium unit viii redox reactions unit ix hydrogen unit x s block elements alkali and alkaline earth metals group 1 and group 2 elements unit xi some p block elements general introduction to p block elements unit xii organic chemistry some basic principles and techniques unit xiii hydrocarbons classification of hydrocarbons unit xi v environmental chemistry content 1 some basic concepts of chemistry 2 structure of atom 3 classification of elements and periodicity in properties 4 chemical bonding and molecular structure 5 states of matter 6 thermodynamics 7 equilibrium 8 redox reactions 9 hydrogen 10 s block elements 11 p block elements 12 organic chemistry some basic principles and techniques 13 hydrocarbons 14 environmental chemistry i appendix ii log antilog table

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EBOOK: GENERAL CHEMISTRY, THE ESSENTIAL CONCEPTS 2020-08-01 this volume presents current thoughts research and findings that were presented at a summit focusing on energy as a cross cutting concept in education involving scientists science education researchers and science educators from across the world the chapters cover four key questions what should students know about energy what can we learn from research on teaching and learning about energy what are the challenges we are currently facing in teaching students this knowledge and what needs be done to meet these challenges in the future energy is one of the most important ideas in all of science and it is useful for predicting and explaining phenomena within every scientific discipline the challenge for teachers is to respond to recent policies requiring them to teach not only about energy as a disciplinary idea but also about energy as an analytical framework that cuts across

disciplines teaching energy as a crosscutting concept can equip a new generation of scientists and engineers to think about the latest cross disciplinary problems and it requires a new approach to the idea of energy this book examines the latest challenges of k 12 teaching about energy including how a comprehensive understanding of energy can be developed the authors present innovative strategies for learning and teaching about energy revealing overlapping and diverging views from scientists and science educators the reader will discover investigations into the learning progression of energy how understanding of energy can be examined and proposals for future directions for work in this arena science teachers and educators science education researchers and scientists themselves will all find the discussions and research presented in this book engaging and informative

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relevant to the field of practical energy section b covers theoretical background product technology case histories and calculation procedures section c is composed of directory of products and services bibliography and sources comprise section d this contribution to energy education will be very helpful to energy executive engaged in this field

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