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for the first time this book sets out ways to teach the science of nanochemistry at a level suitable for pre service and in service teachers in middle and secondary school the authors draw upon peer reviewed science education literature for experiments activities educational research and methods of teaching the subject the book starts with an overview of chemical nanotechnology including definition of the basic concepts in nanoscience properties types of nanostructured materials synthesis characterization and applications it includes examples of how nanochemistry impacts our daily lives this theoretical background is an address for teachers even if they do not have enough information about the subject of nanoscale science subsequent chapters present best practices for presenting the material to students in a way that improves their attitudes and knowledge toward nanochemistry and stem subjects in general the final chapter includes experiments designed for middle and high school students from basic science through to current and near future developments for applications of nanomaterials and nanostructures in medicine electronics energy and the environment users of the book will find a wealth of ideas to convey nanochemistry in an engaging way to students

a decade ago the u s chemical industry was in decline of the more than 40 chemical manufacturing plants being built worldwide in the mid 2000s with more than 1 billion in capitalization none were under construction in the united states today as a result of abundant domestic supplies of affordable natural gas and natural gas liquids resulting from the dramatic rise in shale gas production the u s chemical industry has gone from the world s highest cost producer in 2005 to among the lowest cost producers today the low cost and increased supply of natural gas and natural gas liquids provides an opportunity to discover and develop new catalysts and processes to enable the direct conversion of natural gas and natural gas liquids into value added chemicals with a lower carbon footprint the economic implications of developing advanced technologies to utilize and process natural gas and natural gas liquids for chemical production could be significant as commodity intermediate and fine chemicals represent a higher economic value use of shale gas compared with its use

as a fuel to better understand the opportunities for catalysis research in an era of shifting feedstocks for chemical production and to identify the gaps in the current research portfolio the national academies of sciences engineering and medicine conducted an interactive multidisciplinary workshop in march 2016 the goal of this workshop was to identify advances in catalysis that can enable the united states to fully realize the potential of the shale gas revolution for the u s chemical industry and as a result to help target the efforts of u s researchers and funding agencies on those areas of science and technology development that are most critical to achieving these advances this publication summarizes the presentations and discussions from the workshop

tools for chemical product design from consumer products to biomedicine describes the challenges involved in systematic product design across a variety of industries and provides a comprehensive overview of mathematical tools aimed at the design of chemical products from molecular design to customer products chemical product design has become increasingly important over the past decade and includes a wide range of sectors including gasoline additives and blends in the petroleum industry active ingredients and excipients in the pharmaceutical industry and a variety of consumer products and specialty chemicals traditionally such products have been designed through trial and error methods which not only are time consuming but more importantly only provide limited knowledge that can be translated into next generation products features an impressive collection of contributions from leading researchers in the field presents the latest tools available across a variety of industries describes the challenges involved in systematic product design as well as the latest methods for solving such problems covers a wide range of sectors including gasoline additives and blends in the petroleum industry active ingredients and excipients in the pharmaceutical industry and a variety of consumer products and specialty chemicals

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