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(India) Institution of Engineers (India) Arvind Pandey N. R. Rajagopal Saroj Pachauri

this book presents the current carbonaceous fuel conversion technologies based on chemical looping concepts in the context of traditional or conventional technologies the key features of the chemical looping processes their ability to generate a sequestration ready co₂ stream are thoroughly discussed chapter 2 is devoted entirely to the performance of particles in chemical looping technology and covers the subjects of solid particle design synthesis properties and reactive characteristics the looping processes can be applied for combustion and or gasification of carbon based material such as coal natural gas petroleum coke and biomass directly or indirectly for steam syngas hydrogen chemicals electricity and liquid fuels production details of the energy conversion efficiency and the economics of these looping processes for combustion and gasification applications in contrast to those of the conventional processes are given in chapters 3 4 and 5 finally chapter 6 presents additional chemical looping applications that are potentially beneficial including those for h₂ storage and onboard h₂ production co₂ capture in combustion flue gas power generation using fuel cell steam methane reforming tar sand digestion and chemicals and liquid fuel production a cd is appended to this book that contains the chemical looping simulation files and the simulation results based on the aspen plus software for such reactors as gasifier reducer oxidizer and combustor and for such processes as conventional gasification processes syngas chemical looping process calcium looping process and carbonation calcination reaction ccr process note cd rom dvd and other supplementary materials are not included as part of ebook file

the literacy is the most potent factor so far as the social characteristic having deep bearing on the development of overall personalities of an individual is concerned the competence with knowledge not only makes us feel as responsible citizens it also

smokeless tobacco use is increasing throughout the u s especially among the most vulnerable of our citizens the children with more than 30 000 new cases of oral cancer reported last year in the u s alone it is time that use of smokeless tobacco take its rightful place next to cigarette smoking as a serious health risk that must be stopped this report includes the following chapters clinical and pathological effects carcinogenesis nicotine effects and addiction prevention cessation recommendations for the control of smokeless tobacco tables

photos and graphs

using an applications perspective thermodynamic models for industrial applications provides a unified framework for the development of various thermodynamic models ranging from the classical models to some of the most advanced ones among these are the cubic plus association equation of state cpa eos and the perturbed chain statistical association fluid theory pc saft these two advanced models are already in widespread use in industry and academia especially within the oil and gas chemical and polymer industries presenting both classical models such as the cubic equations of state and more advanced models such as the cpa this book provides the critical starting point for choosing the most appropriate calculation method for accurate process simulations written by two of the developers of these models thermodynamic models for industrial applications emphasizes model selection and model development and includes a useful which model for which application guide it also covers industrial requirements as well as discusses the challenges of thermodynamics in the 21st century

understanding the structural compositional and physicochemical properties of the wheat used in bread biscuits pasta and other consumer products is important this book brings together international experts to provide an overview of the progress made to date and also to give an insight into the new approaches that can be used to solve outstanding problems it covers progress in areas including what grain structure structural features of the gluten proteins structural functionality relationships of wheat protein lipid binding proteins rheology of dough systems and the importance of non starch polysaccharides

this book brings together recent international contributions to the study of gluten proteins from leading experts in the field gluten proteins have gained greater importance due not only to their fundamental role in determining technological quality of wheat end products but also to the apparently increased number of people showing different degrees of gluten intolerance or allergy along with classical subjects such as gluten genetics quality and rheology the gluten proteins covers new tools and research fields including the use of proteomics and genomics furthermore information dedicated to intolerances and allergies is included and opens the possibility to widen future research opportunities promoting cooperation between wheat breeders medical researchers and gluten chemists and geneticists the gluten proteins provides an authoritative source

of information for researchers professionals and postgraduate students wishing to increase their knowledge of the molecular bases of gluten functionality and nutritional role as well as touching on possible future research opportunities

papers presented at a seminar held at lucknow in december 1994 sponsored by the international institute for population sciences

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