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an improved and simplified edition of this classic introduction to the principles of reactor design for chemical reactions of all types homogeneous catalytic biochemical gas solid extractive etc adds new material on systems of deactivating catalysts flow modeling and diagnosis of the ills of operating equipment and new simple design procedures for packed bed and fluidized bed reactors

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the threat of natural resource depletion due to high energy demands has become a key concern in both the developed and developing worlds to alleviate these concerns researchers around the world are exploring sustainable methods for generating energy innovative solutions in fluid particle systems and renewable energy management presents phenomenological experimental and theoretical research as well as market criteria and business models concerning the development of small and large scale chemical and energy plants associating academic and industrial experiences this book highlights current topics in sustainable energy management and development with an emphasis on obtaining liquid gaseous and solid fuels using residues and energetic biomasses academicians researchers and technology developers will find this book useful in furthering their own knowledge and research in this field a pivotal publication in the field of engineering this title covers a range of topics including among others cellulosic feedstock agricultural biomass fluid dynamics gasification processes energy extraction from raw materials and environmental sustainability

the main aim of this paper is to present some new and general results applicable to the equations of two phase flow as formulated in geothermal reservoir engineering two phase regions are important in many geothermal reservoirs especially at depths of order several hundred metres where rising essentially isothermal single phase liquid first begins to boil the fluid then continues to rise with its temperature and pressure closely following the saturation boiling curve appropriate to the fluid composition perhaps the two most interesting theoretical aspects of the idealised two phase flow equations in geothermal reservoir engineering are that firstly only one component water is involved and secondly that the densities of the two phases are so different this has led to the approximation of ignoring capillary pressure the main aim of this paper is to analyse some of the consequences of this assumption especially in relation to saturation changes within a uniform porous medium a general analytic treatment of three dimensional flow is considered previously three dimensional modelling in geothermal reservoirs have relied on numerical simulators in contrast most of the past analytic work has been restricted to one dimensional examples

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this invaluable handbook provides engineers and technicians with more than 5 000 direct and related calculations for solving day to day problems quickly and easily the book covers 13 disciplines including civil architectural mechanical electrical electronics and nuclear engineering enabling readers to become familiar with procedures in fields apart from their own

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