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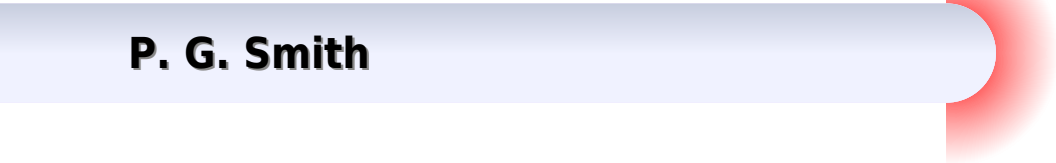
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Engineering P. G. Smith, 2011-02-11 This is a new book on food process engineering which treats the principles of processing in a scientifically rigorous yet concise manner and which can be used as a lead in to more specialized texts for higher study It is equally relevant to those in the food industry who desire a greater understanding of the principles of the food processes with which they work This text is written from a quantitative and mathematical perspective and is not simply a descriptive treatment of food processing The aim is to give readers the confidence to use mathematical and quantitative analyses of food processes and most importantly there are a large number of worked examples and problems with solutions The mathematics necessary to read this book is limited to elementary differential and integral calculus and the simplest kind of differential equation

Structured Catalysts and Reactors Andrzej Cybulski, 1997-10-24 Offering discussions of structured catalysts and up to date approaches to catalytic processes this work describes monolithic membrane and arranged catalysts for use in two and three phase processes It examines catalyst preparation characterization process development modelling and optimization as well as reactor design and operation

Advanced Energy Systems Nik Khartchenko, Nikolai V. Khartchenko, Vadym M. Kharchenko, 1997-11-01 This text deals with advanced energy systems that are sensitive to the environment such as combined cycle power plants The text analyzes major advanced power generation technologies and it gives an outlook to the future of power engineering Among the features of this book are over 50 solved problems examples included at the end of each chapter a state of the art analysis of advanced energy and emerging technologies and full figures appendices and references

Engine Testing Bozzano G Luisa, 2013-10-22 Engine Testing Theory and Practice brings together the information on both the theory and practice of engine testing that engineers in this field must have available Organized into 19 chapters this book begins with a description of the engine test cell including the salient features of its main types Subsequent chapters deal with the other main components of an engine testing installation the control room and the ventilation systems Other chapters discuss the essential features of a test installation fuel supply system as well as the characteristics advantages and disadvantages of the various types of dynamometer The measurements of torque power speed fuel consumption air consumption heat loss and mechanical loss are also explained Other topics of significance include the process of combustion exhaust emissions data logging and statistical analysis This material will be very useful to practicing test engineers and students

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