

CHAPTER 1

1.1. For the thermal cracking of ethane in a tubular reactor, the following data were obtained for the rate coefficient at different reference temperatures:

T(°C)	702	725	734	754	773	789	803	810	827	837
k(s <sup>-1</sup> )	0.15	0.273	0.333	0.595	0.923	1.492	2.138	2.718	4.137	4.665

Solution

The Arrhenius expression

$$k = A \exp\left(-\frac{E}{RT}\right)$$

is transformed logarithmically into:

$$\ln k = \ln A - \frac{E}{RT}$$

For each data point  $\ln k$  and  $1/T$  is calculated:

x = 1/T-10 <sup>3</sup>	y = ln k
1.025	-1.897
1.002	-1.298
0.993	-1.100
0.974	-0.519
0.956	0.080
0.941	0.400
0.929	0.760
0.923	1.000
0.909	1.420
0.901	1.540

The slope and the intercept ( $\ln A$ ) are calculated by linear regression:

$$\frac{E}{R} = \frac{\sum xy - \frac{\sum x \sum y}{N}}{\sum x^2 - \frac{(\sum x)^2}{N}}$$

$$\ln A = \frac{\sum y - m \sum x}{N}$$

with  $x = 1/T$  and  $y = \ln k$ .

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**Solutions Manual to Accompany Chemical Reactor Analysis and Design, Second Edition** Gilbert F.

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Great Britain. Patent Office, 1994 *Proceedings of the 50th Industrial Waste Conference May 8, 9, 10, 1995* Purdue  
Research Foun, 1997-05-01 Proceedings of the 50th Industrial Waste Conference is the only comprehensive documentation of  
the entire seminar It is an overview of the current state of hazardous waste identification management and disposal

Chemical Reactor Analysis and Design Gilbert F. Froment, Kenneth B. Bischoff, Juray De Wilde, 2011-08-24 This is the  
Third Edition of the standard text on chemical reaction engineering beginning with basic definitions and fundamental  
principles and continuing all the way to practical applications emphasizing real world aspects of industrial practice The text  
includes updated coverage of computer modeling methods and many new worked examples Most of the examples use real  
kinetic data from processes of industrial importance *OntoCAPE* Wolfgang Marquardt, Jan Morbach, Andreas  
Wiesner, Aidong Yang, 2009-12-16 Motivation for this Book Ontologies have received increasing attention over the last two  
decades Their roots can be traced back to the ancient philosophers who were interested in a conceptualization of the world In  
the more recent past ontologies and ontological engineering have evolved in computer science building on various roots such  
as logics knowledge representation information modeling and management and knowledge based information systems Most  
recently largely driven by the next generation internet the so called Semantic Web ontological software engineering has  
developed into a scientific field of its own which puts particular emphasis on the theoretical foundations of representation  
and reasoning and on the methods and tools required for building ontology based software applications in diverse domains  
Though this field is largely dominated by computer science close relationships have been established with its diverse areas of  
application where searchers are interested in exploiting the results of ontological software engineering particularly to build  
large knowledge intensive applications at high productivity and low maintenance effort Consequently a large number of  
scientific papers and monographs have been published in the very recent past dealing with the theory and practice of  
ontological software engineering So far the majority of those books are dedicated to the theoretical foundations of ontologies  
including philosophical treatises and their relationships to established methods in information systems and ontological  
software engineering *Mathematical Modeling and Scale-up of Liquid Chromatography* Tingyue Gu, 2012-12-06 Liquid  
chromatography has proved to be one of the most important tools for separations Rapid development in biotechnology has  
increased the demand for chromatography in analytical preparative and large scale applications The understanding of the  
dynamics of chromatography is imperative for the scale up This book is a systematic treatment of the general rate models for  
various forms of liquid chromatography including adsorption size exclusion affinity reversed phase hydrophobic interaction  
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*The Publishers' Trade List Annual* ,1981 *Books in Print* ,1991 **Introduction to Chemical Reactor Analysis - Solutions Manual** Taylor & Francis Group,2012-08-15

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