

1. Record Nr.	UNINA9910458314403321
Titolo	SUNY at sixty [[electronic resource]] : the promise of the State University of New York // edited by John B. Clark, W. Bruce Leslie, and Kenneth P. O'Brien
Pubbl/distr/stampa	Albany, : State University of New York Press, c2010
ISBN	1-4384-3304-2 1-4416-4877-1
Descrizione fisica	1 online resource (391 p.)
Altri autori (Persone)	LeslieWilliam Bruce ClarkJohn B O'BrienKenneth Paul
Disciplina	378.747
Soggetti	Higher education and state - New York (State) - History Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"SUNY scholarly conferences."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""SUNY at Sixty""; ""Table of Contents""; ""Acknowledgments""; ""Foreword""; ""Introduction: Taking Stock of New York's State University after Six Decades""; ""I. A Guided Tour through SUNY's First Six Decades""; ""II. Twenty-Seven Ways to Understand SUNY""; ""The Empire State Creates a University""; ""Introduction""; ""I. Shared Goals, Different Politics, and Differing Outcomes: The Truman Commission and the Dewey Commission""; ""II. Forging SUNY in New York's Political Cauldron""; ""III. The Temporary Commission Surveys Bias in Admissions""; ""The Building Blocks of SUNY"" ""Introduction"" ""I. SUNY Oswego: From Recovery and Refugees to Re-Invention and Revival""; ""II. Rescuing the State Teachers College from History's Scrapheap""; ""III. A Touch of New England in Western New York: The Transformation of SUNY Geneseo""; ""IV. From Schools of Agriculture to Colleges of Technology: A Century of Evolution""; ""Varied Missions in America's Largest Comprehensive University""; ""Introduction""; ""I. The College of Environmental Science and Forestry and SUNY: A Unique Relationship""; ""II. SUNY Maritime College: A History""

""III. Why a University Press Should Be and Must Be Relevant""
Community Colleges: Emergence of an Educational Giant"";
""Introduction""; ""I. A Retrospective View of the Westchester
Community College Experience""; ""II. The Pioneers Speak: Voices from
the Early Years of the SUNY Community Colleges""; ""SUNY Strides onto
the National Research Stage""; ""Introduction""; ""I. Presidential
Leadership, Change, and Community: SUNY Buffalo from 1966 to
1981""; ""II. Documenting Research at SUNY University Centers: A
Comparative Approach""
""III. Better Late Than Never: Intentions, Timing, and Results in Creating
SUNY Research Universities""""The Best Laid Plans""; ""Introduction""; ""I.
James Bryant Conant and the Limits of Educational Planning in
California and New York""; ""II. Three Historical Moments: Contested
Visions of the State University of New York ""; ""III. An Assessment of
the Recommendations of the NYS Commission on Higher Education"";
""a€œDiversitya€?Demography, Culture, and Education for a
Changing New York""; ""Introduction""
""I. Changing Demographics andRepresentational Dilemmas: Latinos at
SUNY and CUNY Meeting the Diversity Challenge""""II. Creating
Educational Equity: A Brief Look at the History and Development of the
SUNY EOCs and EOP""; ""SUNY in and of the World""; ""Introduction""; ""I.
SUNYa€?s Strategic Role in International Higher Education"";
""Appendix: Timeline of Enrollment Growth""; ""II. SUNY from an English
Perspective""; ""The View from the SUNY Tower: Two Chancellors Look
Back""; ""I. Historical Vignettes of SUNY: A Personal Sampling""
""II. The State University of New York:Memories and Perspectives""

2. Record Nr.	UNINA9910828074903321
Autore	Stewart Warren E. <1924->
Titolo	Computer-aided modeling of reactive systems // Warren E. Stewart, Michael Caracotsios
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Interscience, : AIChE, c2008
ISBN	9786611374013 9781281374011 1281374016 9780470282038 0470282037 9780470282021 0470282029
Edizione	[1st ed.]
Descrizione fisica	1 online resource (288 p.)
Altri autori (Persone)	CaracotsiosMichael
Disciplina	541/.39015118
Soggetti	Chemical reactions - Mathematical models Chemical reactions - Computer simulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Computer-Aided Modeling of Reactive Systems; Contents; Chapter 1. Overview; REFERENCES and FURTHER READING; Chapter 2. Chemical Reaction Models; 2.1 STOICHIOMETRY OF REACTION SCHEMES; 2.2 COMPUTABILITY OF REACTION RATES FROM DATA; 2.3 EQUILIBRIA OF CHEMICAL REACTIONS; 2.4 KINETICS OF ELEMENTARY STEPS; 2.5 PROPERTIES OF REACTION NETWORKS; 2.6 EVIDENCE FOR REACTION STEPS; PROBLEMS; REFERENCES and FURTHER READING; Chapter 3. Chemical Reactor Models; 3.1 MACROSCOPIC CONSERVATION EQUATIONS; 3.1.1 Material Balances; 3.1.2 Total Energy Balance; 3.1.3 Momentum Balance; 3.1.4 Mechanical Energy Balance 3.2 HEAT AND MASS TRANSFER IN FIXED BEDS3.3 INTERFACIAL STATES IN FIXED-BED REACTORS; 3.4 MATERIAL TRANSPORT IN POROUS CATALYSTS; 3.4.1 Material Transport in a Cylindrical Pore Segment; 3.4.2 Material Transport in a Pore Network; 3.4.3 Working Models of Flow and Diffusion in Isotropic Media; 3.4.4 Discussion; 3.4.5 Transport and Reaction in Porous Catalysts; 3.5 GAS PROPERTIES AT LOW

PRESSURES; 3.6 NOTATION; REFERENCES and FURTHER READING; Chapter 4. Introduction to Probability and Statistics; 4.1 STRATEGY OF DATA-BASED INVESTIGATION; 4.2 BASIC CONCEPTS IN PROBABILITY THEORY
4.3 DISTRIBUTIONS OF SUMS OF RANDOM VARIABLES
4.4 MULTIRESPONSE NORMAL ERROR DISTRIBUTIONS; 4.5 STATISTICAL INFERENCE AND CRITICISM; PROBLEMS; REFERENCES and FURTHER READING; Chapter 5. Introduction to Bayesian Estimation; 5.1 THE THEOREM; 5.2 BAYESIAN ESTIMATION WITH INFORMATIVE PRIORS; 5.3 INTRODUCTION TO NONINFORMATIVE PRIORS; 5.4 JEFFREYS PRIOR FOR ONE-PARAMETER MODELS; 5.5 JEFFREYS PRIOR FOR MULTIPARAMETER MODELS; 5.6 SUMMARY; PROBLEMS; REFERENCES and FURTHER READING; Chapter 6. Process Modeling with Single-Response Data; 6.1 THE OBJECTIVE FUNCTION $S()$
6.2 WEIGHTING AND OBSERVATION FORMS
6.3 PARAMETRIC SENSITIVITIES; NORMAL EQUATIONS; 6.4 CONSTRAINED MINIMIZATION OF $S()$; 6.4.1 The Quadratic Programming Algorithm GRQP; 6.4.2 The Line Search Algorithm GRSI; 6.4.3 Final Expansions Around ; 6.5 TESTING THE RESIDUALS; 6.6 INFERENCES FROM THE POSTERIOR DENSITY; 6.6.1 Inferences for the Parameters; 6.6.2 Inferences for Predicted Functions; 6.6.3 Discrimination of Rival Models by Posterior Probability; 6.7 SEQUENTIAL PLANNING OF EXPERIMENTS; 6.7.1 Planning for Parameter Estimation; 6.7.2 Planning for Auxiliary Function Estimation
6.7.3 Planning for Model Discrimination
6.7.4 Combined Discrimination and Estimation; 6.7.5 Planning for Model Building; 6.8 EXAMPLES; 6.9 SUMMARY; 6.10 NOTATION; PROBLEMS; REFERENCES and FURTHER READING; Chapter 7. Process Modeling with Multiresponse Data; 7.1 PROBLEM TYPES; 7.2 OBJECTIVE FUNCTION; 7.2.1 Selection of Working Responses; 7.2.2 Derivatives of Eqs. (7.2-1) and (7.2-3); 7.2.3 Quadratic Expansions; Normal Equations; 7.3 CONSTRAINED MINIMIZATION OF $s()$; 7.3.1 Final Expansions Around ; 7.4 TESTING THE RESIDUALS; 7.5 POSTERIOR PROBABILITIES AND REGIONS
7.5.1 Inferences Regarding Parameters

Sommario/riassunto

Learn to apply modeling and parameter estimation tools and strategies to chemical processes using your personal computer This book introduces readers to powerful parameter estimation and computational methods for modeling complex chemical reactions and reaction processes. It presents useful mathematical models, numerical methods for solving them, and statistical methods for testing and discriminating candidate models with experimental data. Topics covered include: Chemical reaction models Chemical reactor models Probability and statistics Bayesian estimation Process modeling with si
