

1. Record Nr.	UNINA9910461062803321
Titolo	Digital books [[electronic resource] ] : competition and commerce // Oliver A. Hagen, editor
Pubbl/distr/stampa	[Hauppauge, N.Y.], : Nova Science Publishers, c2010
ISBN	1-61728-450-5
Descrizione fisica	1 online resource (152 p.)
Collana	Media and communications--technologies, policies and challenges
Altri autori (Persone)	HagenOliver A
Disciplina	346.7304/82
Soggetti	Electronic publishing - Law and legislation - United States Book industries and trade - Law and legislation - United States Library materials - Digitization - United States Fair use (Copyright) - United States Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Includes reprinted legislative documents.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The Google Library Project : Is Digitization for Purposes of Online Indexing Fair Use Under Copyright Law? / Kate M. Manuel, Legislative Attorney -- "Orphan Works" in Copyright Law / Brian T. Yeh, Legislative Attorney -- Statement of Paul Aiken on the Google Book Settlement (Committee on the Judiciary, House of Representatives) -- Statement of Marybeth Peters, The Register of Copyrights, before the Committee on the Judiciary hearing on "Competition and Commerce in Digital Books" -- Competition that Works : Why the Google Books Project is Good for Consumers and Competitors / Testimony of David A. Balto, before the House Judiciary Committee, Senior Fellow, Center for American Progress Action Fund, Hearing on "Competition and Commerce in Digital Books" -- Testimony of David Drummond, Senior Vice President of Corporate Development and Chief Legal Officer, Google Inc., before the House Committee on the Judiciary, hearing on "Competition and Commerce in Digital Books" -- Statement of Paul Misener, Vice President, Global Public Policy, Amazon.com, before the Committee on the Judiciary, hearing on "Competition and Commerce in Digital Books" -- Written Testimony of Randal C. Picker, Paul and Theo Leffmann Professor of Commercial Law, The University of Chicago Law

School and Senior Fellow, The Computation Institute, The University of Chicago and Argonne National Laboratory, hearing on "Competition and Commerce in Digital Books" -- Statement of The National Federation of the Blind, before the Committee on the Judiciary, Hearing on "Competition and Commerce in Digital Books" -- Testimony of John M. Simpson, Consumer Advocate with Consumer Watchdog, hearing on "Competition and Commerce in Digital Books".

2. Record Nr.	UNINA9910146414103321
Autore	Seavey Kevin Christopher
Titolo	Step-growth polymerization process modeling and product design [[electronic resource] /] / by Kevin Seavey and Y.A. Liu
Pubbl/distr/stampa	Hoboken, NJ, : Wiley, c2008
ISBN	1-282-11245-7 9786612112454 0-470-29248-2 0-470-29249-0
Descrizione fisica	1 online resource (746 p.)
Altri autori (Persone)	LiuY. A (Yih An)
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Lingua di pubblicazione	Inglese
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Nota di contenuto	STEP-GROWTH POLYMERIZATION PROCESS MODELING AND PRODUCT DESIGN; CONTENTS; FOREWORD; PREFACE; SOFTWARE SELECTION; ACKNOWLEDGMENTS; ABOUT THE AUTHORS; 1 INTRODUCTION; 1.1. Case Studies; 1.2. Need for Process Modeling; 1.3. Book Overview; PART I: FUNDAMENTALS AND APPLICATIONS OF STEP-GROWTH POLYMERIZATION PROCESS MODELING AND PRODUCT DESIGN; 2 FUNDAMENTALS OF SIMULATING STIRRED TANKS AND PLUG-FLOW REACTORS; 2.1. Simulating Stirred Tanks; 2.2. Simulating Plug-Flow Reactors; 2.3. Closing Remarks; 2.4. Appendix: Basic Numerical

## Methods for Integrating Ordinary Differential Equations

2.5. Appendix: FORTRAN CodesReferences; 3 PHYSICAL PROPERTIES; 3.1. Design Problem: Estimating Residence Time; 3.2. Introduction; 3.3. Physical Properties of Conventional Components; 3.4. Physical Properties of Polymers; 3.5. Solution to the Design Problem; 3.6. Closing Remarks; 3.7. Appendix: FORTRAN Codes; 3.8. Appendix: Van Krevelen's Method; References; 4 PHASE EQUILIBRIUM AND MASS TRANSFER; 4.1. Design Problems; 4.2. Introduction; 4.3. Phase Equilibrium; 4.4. Diffusional Mass Transfer; 4.5. Estimating Mass-Transfer Coefficients; 4.6. Boiling Mass Transfer 4.7. Solution to the Design Problem4.8. Closing Remarks; 4.9. Appendix: FORTRAN Codes; References; 5 REACTION KINETICS; 5.1. Design Problems; 5.2. Introduction; 5.3. Functional-Group Approach and the Method of Moments; 5.4. Nylon-6 Polymerization; 5.5. Poly (Ethylene Terephthalate) Polymerization; 5.6. Solution to Design Problems; 5.7. Closing Remarks; 5.8. Appendix: Codes; References; 6 ENTHALPY CALCULATIONS; 6.1. Design Problem: Polymer Drying; 6.2. Introduction; 6.3. Physical Properties Pertinent to Enthalpy; 6.4. Rigorous Enthalpy Calculations; 6.5. Solution to Design Problem 6.6. Closing Remarks6.7. Appendix: Codes; References; 7 STIRRED TANKS; 7.1. Design Problems; 7.2. Introduction; 7.3. Stirred-Tank Equations; 7.4. Solution to Design Problems; 7.5. Closing Remarks; 7.6. Appendix: Codes; References; 8 PLUG-FLOW REACTORS; 8.1. Design Problems; 8.2. Introduction; 8.3. Liquid PFR; 8.4. Liquid PFR, Well-Mixed Vapor Phase; 8.5. Liquid PFR, Countercurrent Liquid Phase; 8.6. Liquid PFR, Countercurrent Vapor Phase; 8.7. Solution to Design Problems; 8.8. Closing Remarks; 8.9. Appendix: Codes; References; 9 FLOWSHEET SIMULATION; 9.1. Design Problems; 9.2. Introduction 9.3. A Simple Example9.4. Single Unit Operation Example; 9.5. Solution to Design Problems; 9.6. Closing Remarks; 9.7. Appendix: Codes; PART II: MODELING STEP-GROWTH POLYMERIZATION PROCESSES AND PROPERTIES USING POLYMERS PLUS AND ASPEN CUSTOM MODELER; 10 NYLON-6 VK-TUBE SIMULATION IN POLYMERS PLUS; 10.1. Process Description; 10.2. Developing the Model; 10.3. Applying the Model; 10.4. Closing Remarks; 10.5. Appendix: Model Input Form; Reference; 11 NYLON-6 LEACHER AND SOLID-STATE POLYMERIZATION SIMULATION IN ASPEN CUSTOM MODELER; 11.1. Process Description 11.2. Overview of Aspen Custom Modeling

### Sommario/riassunto

Understand quantitative model step-growth polymerization plans and how to predict properties of the product polymer with the essential information in Step-Growth Polymerization Process Modeling and Product Design. If you want to learn how to simulate step-growth polymerization processes using commercial software and seek an in-depth, quantitative understanding of how to develop, use, and deploy these simulations, consult this must-have guide. The book focuses on quantitative relationships between key process input variables (KPIVs) and key process output variables (KPOVs), and the integ