

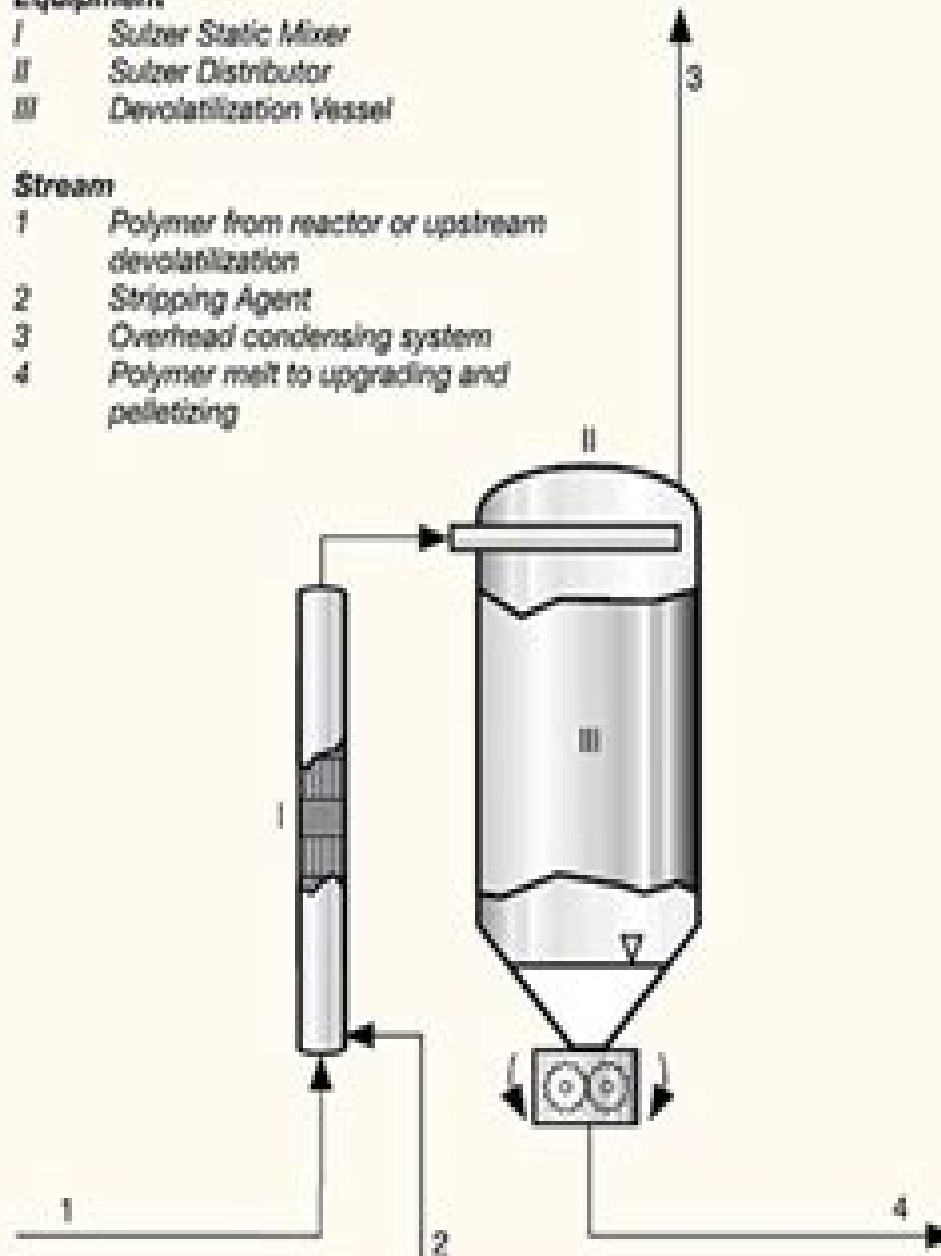
Devolatilization Technology (Second stage)

Equipment

- I Sulzer Static Mixer
- II Sulzer Distributor
- III Devolatilization Vessel

Stream

- 1 Polymer from reactor or upstream devolatilization
- 2 Stripping Agent
- 3 Overhead condensing system
- 4 Polymer melt to upgrading and pelletizing



Polymer Devolatilization

Gianni Astarita, Luigi Nicolais



Polymer Devolatilization:

Polymer Devolatilization Ramon Albalak, 2017-09-29 This work introduces the fundamental background necessary to understand polymer devolatilization. It elucidates the actual mechanisms by which the devolatilization of polymer melts progresses and discusses virtually every type of devolatilization equipment available. The work also addresses devolatilization in various geometries and types of equipment, describing the use of falling strand slit, single screw co-rotating and counter-rotating twin screw devolatilization.

Devolatilization of Polymers Joseph A. Biesenberger, 1988-05-12 This book details clearly and concisely the state of the art technology of polymer devolatilization, also covering the engineering science aspects. It presents a wide spectrum of topics including equipment from flash evaporators and thin film evaporators to vented single and twin screw extruders, process mechanisms and models, thermodynamics and transport properties, and analytical methods.

Devolatilization of Polymers Alan R. Berens, 1983

Principles of Polymer Processing Zehev Tadmor, Costas G. Gogos, 2013-12-02 Thoroughly revised edition of the classic text on polymer processing. The Second Edition brings the classic text on polymer processing thoroughly up to date with the latest fundamental developments in polymer processing while retaining the critically acclaimed approach of the First Edition. Readers are provided with the complete panorama of polymer processing, starting with fundamental concepts through the latest current industry practices and future directions. All the chapters have been revised and updated, and four new chapters have been added to introduce the latest developments. Readers familiar with the First Edition will discover a host of new material, including Blend and alloy microstructuring, Twin screw based melting and chaotic mixing mechanisms, Reactive processing, Devolatilization theory, mechanisms and industrial practice, Compounding theory and industrial practice, The increasingly important role of computational fluid mechanics. A systematic approach to machine configuration design. The Second Edition expands on the unique approach that distinguishes it from comparative texts. Rather than focus on specific processing methods, the authors assert that polymers have a similar experience in any processing machine and that these experiences can be described by a set of elementary processing steps that prepare the polymer for any of the shaping methods. On the other hand, the authors do emphasize the unique features of particular polymer processing methods and machines, including the particular elementary step and shaping mechanisms and geometrical solutions. Replete with problem sets and a solutions manual for instructors, this textbook is recommended for undergraduate and graduate students in chemical engineering and polymer and materials engineering and science. It will also prove invaluable for industry professionals as a fundamental polymer processing analysis and synthesis reference.

Computational & Experimental Methods in Multiphase & Complex Flow X S. Hernández, P. Vorobieff, 2019-07-23 Composed of papers presented at the 10th conference on Multiphase flow, this book presents the latest research on the subject. The research included in this volume focuses on using synergies between experimental and computational techniques to gain a better understanding of all classes of multiphase and complex flow.

HiGee Chemical Separation Engineering

Youzhi Liu,2023-11-15 Hi Gee Chemical Separation Engineering introduces the basic concepts and technical terms of high gravity hi gee separation technology in a systematical way while also analyzing and expounding on the differences between centrifugal separation technology and high gravity separation technology The book takes the problem elicitation theory principle key technology application case as the main line and introduces in detail the operation and technical contents of high gravity chemical separation such as absorption desorption distillation extraction and adsorption In addition the book highlights academic innovation and lists examples that are closely combined with practical production This book will be an indispensable reference for researchers engineers and technicians production managers and teachers and students of related majors in colleges and universities in chemical industry materials environment pharmacy food and other fields Offers in a single source high gravity chemical separation operation and technical content like absorption desorption distillation extraction and adsorption Integrates basic research theoretical innovation key technology breakthroughs and engineering application cases Features attractive and enlightening application prospects and outlooks Introduces development trends and direction of each high gravity separation operation technology

Advances in Transport Processes A.S. Mujumdar,R.A. Mashelkar,2013-10-22 The subject matter covered in this volume covers a wide scope It contains critical reviews in many frontier areas of interest to engineers and applied scientists Multiphase transport ranging from floc breakage to flow through multiphase media is discussed Difficult problems of bubble growth and devolatilisation from polymeric melts are treated The question of solid liquid phase change with flow is considered and the emerging quantitation of web drying technology through mathematical modeling is covered Transport phenomena in high tech materials ranging from zeolite catalysts to liquid crystalline materials are covered and formidable problems of transport of gases in porous media which have implications in many different technologies are also addressed Finally applications of newer techniques in numerical computation of transport processes are highlighted These authoritative evaluative and timely reviews of topics of current and potential interest will serve the needs of practising engineers as well as academic and industrial researchers

Theoretical and Applied Rheology P. Moldenaers,R. Keunings,2013-10-22 More than 900 authors from over 35 countries contributed to the 1992 International Congress on Rheology These proceedings volumes comprise 17 plenary and keynote papers 250 oral contributions and some 200 poster presentations All relevant aspects of rheology are covered e g theoretical rheology molecular theories fluid mechanics rheometry experimental methods foams polymer solutions polymer melts rubber solids composites biorheology industrial rheology polymer processing food rheology and electrorheology reflecting the development of rheology into a broad multidisciplinary field of recognized academic and industrial relevance

Process Technology André B. de Haan,2015-04-24 Process Technology provides a general overview about chemical and biochemical process technology It focuses on the structure and development of production processes main technological operations and the important aspects of process economics The theoretical foundations in each chapter are supplemented by case studies and

examples in a clear and instructive manner to illustrate the practical aspects. The author highlights operating principles, reasons for application, and available industrial equipment of technological operations. Aim is to facilitate those without a process technology background in multi-disciplinary cooperation with bio-chemical engineers by providing an overview of this exciting field. The textbook is organized into seven distinct parts: Structure of the chemical industry and bio-chemical processes; Bio-Chemical reaction engineering; Molecular separations: distillation, extraction, absorption, adsorption; Mechanical separations: filtration, sedimentation, membranes; Particle and final product manufacturing; Development: scale up, design and safety of processes; Major industrial process descriptions.

Developments in Plastics Technology –3 A. Whelan, J.L. Craft, 2012-12-06. Because of the sheer size of the plastics industry, the title *Developments in Plastics Technology* now covers an incredibly wide range of subjects or topics. No single volume can survey the whole field in any depth, and so what follows is therefore a series of chapters on selected topics. The topics were selected by us, the editors, because of their immediate relevance to the plastics industry. When one considers the materials produced and used by the modern plastics industry, there is a tendency to think of the commodity thermoplastics such as poly(vinyl chloride) or poly(ethylene), the thermosetting materials are largely ignored. Because of this attitude, we are very pleased to include in this volume a chapter which deals with the processing of a thermosetting material, i.e. the pultrusion of glass-reinforced polyester. The extrusion of plastics is of course a very important subject, but an aspect which is often overlooked is the need to remove volatile matter during processing. For this reason, we have included a chapter on devolatilization. Current industrial practice is towards materials modification, and this attitude is reflected in the chapters on the transformation of ethylene vinyl acetate polymers and the use of wollastonite in two important thermoplastics. When assessing the performance of materials, there is a tendency to concentrate on short-term mechanical tests and ignore such topics as fatigue and longer-term testing. We are therefore very pleased to include a chapter on this subject.

Computational Investigations of Polymer Devolatilization Processes in Steam Contactors Kelly Marie Gabor, 2016. The process of polymer devolatilization is a critical step in manufacturing high-quality polymers. Polymer devolatilization is a technique that involves removing unwanted substances such as unreacted monomers, volatile by-products, solvents, or any other unwanted materials with the use of superheated steam. The polymer mixture considered here initially consists of polymer and an excess hydrocarbon solvent like cyclohexane. This polymer mixture is referred to as cement. To remove the cyclohexane, superheated steam is mixed with the cement, and the steam causes the cyclohexane to evaporate, leaving behind a cement mixture with less solvent and a higher concentration of polymer. As the cement dries out and forms into particles or crumb, it is carried away and further processed while the steam and solvent vapor are vented out of the contactor. This process is modeled using computational fluid dynamics (CFD), specifically employing the commercial code ANSYS FLUENT, to gain insights into the complex phenomena occurring and accounts for several aspects of this multiphase flow problem. The model shows the initial breakup of the cement and the heat transfer and phase

change as the solvent evaporates in addition to tracking the droplet's size, temperature, solvent content and other important parameters used to monitor the droplet's evolution within the contactor. After completion of the simulation, the cement particle sizes are compared to average values from the field for the actual final product to verify this model. This thesis focuses on modeling two separate contactors referred to as Contactor A and Contactor B which differ in shape but involve the same processes. For each contactor, once a final model is constructed, a parametric study is performed to test for several modifications involving lower levels of steam usage which can in turn potentially reduce the manufacturing cost. Contactor A tested the effects of different initial polymer temperatures on the final polymer product. Increasing the cement operating temperature reduced the solvent concentration in the cement crumb significantly and the final cement crumb sizes showed a slight decrease as well, which indicated a better production performance. For Contactor B, several simulations were carried out to determine the effects of changing the operating steam pressure and also several geometric parameters. Simulations were carried out using steam as the only phase to test how the flow rate and residence time were affected with the changes in such operating parameters. After determining an improved geometry modification, a full simulation was carried out with steam and cement particles and compared to the original case. The modified case performed better compared to the original case by providing reduced particle sizes, residence times, and cyclohexane content, all indicating better performance.

Modeling Thermodynamic and Diffusion Properties in Concentrated Polymer Solutions Michael John Misovich, 1988

Mechanics and Control Engineering III James Zhang, Guanghsu A. Chang, Steffen Marburg, 2014-12-17. Selected peer reviewed papers from the 2014 3rd International Conference on Mechanics and Control Engineering ICMCE 2014, October 26-28, 2014, Asheville, North Carolina, USA.

Polymer Processing and Properties Gianni Astarita, Luigi Nicolais, 1984. During the First Conference of European Rheologists which was held in Graz, Austria, in April 1982, the Provisional Committee of European Delegates to the International Committee on Rheology held a meeting to discuss future European activities in the general area of rheology. It was agreed among other things that the organization of meetings in Europe on specific topics related to rheology would be done in cooperation so as to avoid conflicts of dates and/or subject areas. Any such meeting if approved by the Provisional Committee would be named a European Meeting. The European Societies of Rheology would help the organizers with distribution of circulars, membership lists, and any required technical assistance. One of the very first meetings organized within this procedural scheme has been the European Meeting on Polymer Processing and Properties which was held in Capri, Italy, on June 13-16, 1983. This book constitutes the Proceedings of that meeting.

Polymer Reaction Engineering Hans-Ulrich Moritz, Werner Pauer, 2008-03-03. The volume represents the proceedings of the 9th International Workshop on Polymer Reaction Engineering held at the University of Hamburg, Germany, in cooperation with DECHEMA. As such, it presents new findings in the field of polymer engineering from academia and industry with topics ranging from new catalysts, high throughput methods to process analytics, micro technologies, green processes, and much

more Excellent contributions covering new concepts promising developments and industrial solutions make this a must have for everyone working in the field Conference Proceedings Society of Plastics Engineers. Technical Conference,2003

Handbook of Polymer Reaction Engineering Thierry Meyer, Jos Keurentjes,2005 *Encyclopedia of Polymer Science and Engineering* Herman Francis Mark, Jacqueline I. Kroschwitz,1985 This is a supplement volume to the Encyclopedia of Polymer Science and Engineering which covers ground from acid base interactions to vinyl chloride polymers *Society of Plastics Engineers Annual Technical Conference* Society of Plastics Engineers,1975 **Polymer Process Engineering** Eric A. Grulke,1994 Provides an overview of both the basic science composition morphology physical states and properties of polymers as well as quantitative engineering tools required to design polymer systems

This book delves into Polymer Devolatilization. Polymer Devolatilization is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Polymer Devolatilization, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Polymer Devolatilization
- Chapter 2: Essential Elements of Polymer Devolatilization
- Chapter 3: Polymer Devolatilization in Everyday Life
- Chapter 4: Polymer Devolatilization in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Polymer Devolatilization. The first chapter will explore what Polymer Devolatilization is, why Polymer Devolatilization is vital, and how to effectively learn about Polymer Devolatilization.

3. In chapter 2, the author will delve into the foundational concepts of Polymer Devolatilization. This chapter will elucidate the essential principles that must be understood to grasp Polymer Devolatilization in its entirety.

4. In chapter 3, the author will examine the practical applications of Polymer Devolatilization in daily life. The third chapter will showcase real-world examples of how Polymer Devolatilization can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Polymer Devolatilization in specific contexts. The fourth chapter will explore how Polymer Devolatilization is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Polymer Devolatilization. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Polymer Devolatilization.

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Polymer Devolatilization Introduction

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