

crystallization of organic compounds an industrial perspective 1st edition by tung hsien hsin paul edward l midler
michael mccauley 2009 hardcover

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Crystallization of Organic Compounds

Filled with industrial examples emphasizing the practical applications of crystallization methodologies Based on the authors' hands-on experiences as process engineers at Merck, Crystallization of Organic Compounds guides readers through the practical aspects of crystallization. It uses plenty of case studies and examples of crystallization processes, ranging from development through manufacturing scale-up. The book not only emphasizes strategies that have been proven successful, it also helps readers avoid common pitfalls that can render standard procedures unsuccessful. The goal of this text is twofold: Build a deeper understanding of the fundamental properties of crystallization as well as the impact of these properties on crystallization process development. Improve readers' problem-solving abilities by using actual industrial examples with real process constraints. Crystallization of Organic Compounds begins with detailed discussions of fundamental thermodynamic properties, nucleation and crystal growth kinetics, process dynamics, and scale-up considerations. Next, it investigates modes of operation, including cooling, evaporation, anti-solvent, and reactive crystallization. The authors conclude with special applications such as ultrasound in crystallization and computational fluid dynamics in crystallization. Most chapters feature multiple examples that guide readers step by step through the crystallization of active pharmaceutical ingredients (APIs). With its focus on industrial applications, this book is recommended for chemical engineers and chemists who are involved with the development, scale-up, or operation of crystallization processes in the pharmaceutical and fine chemical industries.

Chemical Engineering in the Pharmaceutical Industry

A guide to the important chemical engineering concepts for the development of new drugs, revised second edition The revised and updated second edition of Chemical Engineering in the Pharmaceutical Industry offers a guide to the experimental and computational methods related to drug product design and development. The second edition has been greatly expanded and covers a range of topics related to formulation design and process development of drug products. The authors review basic analytics for quantitation of drug product quality attributes, such as potency, purity, content uniformity, and dissolution, that are addressed with consideration of the applied statistics, process analytical technology, and process control. The 2nd Edition is divided into two separate books: 1) Active Pharmaceutical Ingredients (API's) and 2) Drug Product Design, Development and Modeling. The contributors explore technology transfer and scale-up of batch processes that are exemplified experimentally and computationally. Written for engineers working in the field, the book examines in-silico process modeling tools that streamline experimental screening approaches. In addition, the authors discuss the emerging field of continuous drug product manufacturing. This revised second edition: Contains 21 new or revised chapters, including chapters on quality by design, computational approaches for drug product modeling, process design with PAT and process control, engineering challenges and solutions Covers chemistry and engineering activities related to

dosage form design, and process development, and scale-up Offers analytical methods and applied statistics that highlight drug product quality attributes as design features Presents updated and new example calculations and associated solutions Includes contributions from leading experts in the field Written for pharmaceutical engineers, chemical engineers, undergraduate and graduation students, and professionals in the field of pharmaceutical sciences and manufacturing, *Chemical Engineering in the Pharmaceutical Industry, Second Edition* contains information designed to be of use from the engineer's perspective and spans information from solid to semi-solid to lyophilized drug products.

Yvain

The twelfth-century French poet Chrétien de Troyes is a major figure in European literature. His courtly romances fathered the Arthurian tradition and influenced countless other poets in England as well as on the continent. Yet because of the difficulty of capturing his swift-moving style in translation, English-speaking audiences are largely unfamiliar with the pleasures of reading his poems. Now, for the first time, an experienced translator of medieval verse who is himself a poet provides a translation of Chrétien's major poem, *Yvain*, in verse that fully and satisfyingly captures the movement, the sense, and the spirit of the Old French original. *Yvain* is a courtly romance with a moral tenor; it is ironic and sometimes bawdy; the poetry is crisp and vivid. In addition, the psychological and the socio-historical perceptions of the poem are of profound literary and historical importance, for it evokes the emotions and the values of a flourishing, vibrant medieval past.

Duty and Desire Book Club Edition

To uphold family honor and tradition, Sheetal Prasad is forced to forsake the man she loves and marry playboy millionaire Rakesh Dhanraj while the citizens of Raigun, India, watch in envy. On her wedding night, however, Sheetal quickly learns that the stranger she married is as cold as the marble floors of the Dhanraj mansion. Forced to smile at family members and cameras and pretend there's nothing wrong with her marriage, Sheetal begins to discover that the family she married into harbors secrets, lies and deceptions powerful enough to tear apart her world. With no one to rely on and no escape, Sheetal must ally with her husband in an attempt to protect her infant son from the tyranny of his family.sion.

Process Engineering of Size Reduction

The *Powder Technology Handbook, Third Edition* provides a comprehensive guide to powder technology while examining the fundamental engineering processes of particulate technology. The book offers a well-rounded perspective on powder technologies that extends from particle to powder and from basic problems to actual applications. Pro

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My Neighbour's Shoes; Or, Feeling for Others. A Tale

Are you looking for the best device for delicious BBQ and grilled meals? If yes, keep reading. What's the best way to infuse your barbecue fixings with that quintessential, smoky flavor? This book explains everything you need to know-picking the right pellet flavors, maximizing the potential of your smoker-grill, and mastering cold-smoke and slow-roast techniques. You'll be delighted to find that most of the ingredients used in the recipes can be found at your local grocery store, and can satisfy your appetite and fit your budget. In this book you will find: How to use your Pit Boss Tips and tricks for the perfect BBQ Easy and Easy to find recipes The right pellet for the best BBQ Perfect grilling/smoking recipes for any occasion And much more! Also inside the book, you'll find all the information you'll need, and with this book, you can make your life easier, while cutting down the chances of failure into the bargain! Get your copy NOW!

Powder Technology Handbook

I have a dog. An inconvenient dog. When I wake up, my dog is inconvenient. When I'm getting dressed, my dog is inconvenient. And when I'm making tunnels, my dog is SUPER inconvenient. But sometimes, an inconvenient dog can be big and warm and cuddly. Sometimes, an inconvenient dog can be the most comforting friend in the whole wide world.

Charles Pettigrew, First Bishop-elect of the North Carolina Episcopal Church

Written by Laurence Britton, who has over 20 years' experience in the fields of static ignition and process fire and explosion hazards research, this resource addresses an area not extensively covered in process safety standards or literature: understanding and reducing potential hazards associated with static electricity. The book covers the nature of static electricity, characteristics and effective energies of different static resources, techniques for evaluating static electricity hazards, general bonding, grounding, and other techniques used to control static or prevent ignition, gases and liquids, powders and hybrid mixtures.

The Easy Pit Boss Wood Pellet Grill And Smoker Cookbook

This unique reference provides the first systematic coverage available in a single-source volume on the application of materials science techniques to the pharmaceutical field-offering a comprehensive program for the physical characterization of raw materials, drug substances, and formulated products.

I Have a Dog

Imagine that you are living in a country that does not recognize you as a citizen in spite of the fact that your people have maintained a continuous existence there for several centuries. If that was not enough of a traumatic experience, consider that because of your racial, ethnic and religious identity other ethnic groups that are fighting the brutal military regime in your country for their self-determination and human rights consider you as \"settlers\" from a neighboring country. It must be your worst nightmare when you realize that half of your people (almost 2 million) have been forced to take asylum or refuge outside, and you may be the next in line to seek a way out of this living hell of xenophobia, discrimination, intolerance, racism and bigotry. The victims are the Rohingya people of Burma (Myanmar). Because of their religion, race, ethnicity, color and language they are the most discriminated and persecuted people in our planet. Some argue that they are also one of the most forgotten. The Myanmar military regime has denied their citizenship rights, claiming that they are illegal settlers from nearby Bangladesh who have moved into Arakan during the British occupation of Burma in the 19th century. Is there any truth to such allegations? Does the military junta apply the same litmus test against all ethnic and religious groups in matters of citizenship? What is the basis for a nation's claim to self-determination? Must a people wander in the wilderness for two millennia and suffer repeated persecution, humiliation and genocide to qualify? How about the rights of a minority community to survive with their culture and traditions intact? Do they need to be 'children' of a 'higher' God to qualify?

What makes the children of a 'lesser' God to be forgotten and denied the same treatment and privilege that was granted hitherto to other nations? For much of its history, Burma has been ruled by military. As has once again been demonstrated recently they are brutal, savage and tyrannical. They have ignored people's verdict in the election and imprisoned leaders and workers of the democracy movement. They cannot be guarantors or protectors of human rights of anyone, let alone religious and ethnic minorities. Do you know that the Rohingyas - face cruel restriction on marriage and those married without government authorization are paraded naked on the streets? - Are restricted from traveling outside their villages? - Have no legal right to own land or property? - Are restricted from getting education, finding work, getting medical and health care? - Are subjected to land confiscation, forced eviction and destruction of homes, offices, schools, mosques, shops, etc., and face religious persecution on a daily basis? - Are victims of staged riots, forced starvation, arbitrary taxation, extortion, arrest, torture and extra-judicial killings? - Are forced to do slave labor for establishment of government infrastructure, new Buddhist settlements, pagodas and monasteries on evicted lands with the government intent of changing the landscape and demography of Arakan? - Are forced to convert to Buddhism &/or worship Buddha? Do you know that when it comes to the Rohingya people, the Burmese government doesn't uphold any of the Articles of the Universal Declaration of Human Rights? Nothing can excuse us from the criminal silence that we practice in not voicing our concern about the plight of the Rohingya people. \"The Forgotten Rohingya\" makes a strong case for mobilizing concerned citizens of our globe to ease their sufferings. The author analyzes origin of the Rohingya people and offers ideas to solve their problem. The author also discusses problems of xenophobia and racism, which are so rampant in this country of many races, ethnicities and religions. He also analyzes the role of Daw Suu Kyi and failure of Burma's orange revolution.

Avoiding Static Ignition Hazards in Chemical Operations

Dust explosions are common and costly in a wide array of industries such as petrochemical, food, paper and pharmaceutical. It is imperative that practical and theoretical knowledge of the origin, development, prevention and mitigation of dust explosions is imparted to the responsible safety manager. The material in this book offers an up to date evaluation of prevalent activities, testing methods, design measures and safe operating techniques. Also provided is a detailed and comprehensive critique of all the significant phases relating to the hazard and control of a dust explosion.

Physical Characterization of Pharmaceutical Solids

A guide to the development and manufacturing of pharmaceutical products written for professionals in the industry, revised second edition The revised and updated second edition of Chemical Engineering in the Pharmaceutical Industry is a practical book that highlights chemistry and chemical engineering. The book's regulatory quality strategies target the development and manufacturing of pharmaceutically active ingredients of pharmaceutical products. The expanded second edition contains revised content with many new case studies and additional example calculations that are of interest to chemical engineers. The 2nd Edition is divided into two separate books: 1) Active Pharmaceutical Ingredients (API's) and 2) Drug Product Design, Development and Modeling. The active pharmaceutical ingredients book puts the focus on the chemistry, chemical engineering, and unit operations specific to development and manufacturing of the active ingredients of the pharmaceutical product. The drug substance operations section includes information on chemical reactions, mixing, distillations, extractions, crystallizations, filtration, drying, and wet and dry milling. In addition, the book includes many applications of process modeling and modern software tools that are geared toward batch-scale and continuous drug substance pharmaceutical operations. This updated second edition: Contains 30 new chapters or revised chapters specific to API, covering topics including: manufacturing quality by design, computational approaches, continuous manufacturing, crystallization and final form, process safety Expanded topics of scale-up, continuous processing, applications of thermodynamics and thermodynamic modeling, filtration and drying Presents updated and expanded example calculations Includes contributions from noted experts in the field Written for pharmaceutical engineers, chemical engineers, undergraduate and graduate students, and professionals in the field of pharmaceutical

sciences and manufacturing, the second edition of Chemical Engineering in the Pharmaceutical Industry focuses on the development and chemical engineering as well as operations specific to the design, formulation, and manufacture of drug substance and products.

The Forgotten Rohingya: Their Struggle for Human Rights in Burma

I am 9 & Magical Unicorn Journal Happy Birthday 9 Years Old - Unicorn interior journal for kids- 9 Year Old Christmas birthday gift for Girls

Dust Explosions in the Process Industries

Warning: This erotica contains scenes and elements that may be disturbing to some readers. Please review the full content warning below. Jessica Martin is not a nice girl. As Prom Queen and Captain of the cheer squad, she'd ruled her school mercilessly, looking down her nose at everyone she deemed unworthy. The most unworthy of them all? The "freak," Manson Reed: her favorite victim. But a lot changes after high school. A freak like him never should have ended up at the same Halloween party as her. He never should have been able to beat her at a game of Drink or Dare. He never should have been able to humiliate her in front of everyone. Losing the game means taking the dare: a dare to serve Manson for the entire night as his slave. It's a dare that Jessica's pride - and curiosity - won't allow her to refuse. What ensues is a dark game of pleasure and pain, fear and desire. Is it only a game? Only revenge? Only a dare? Or is it something more? This book contains intense fantasy scenes of hard kinks/edgeplay, graphic sex, and harsh language. It is intended only for an adult audience. Beware: this is a dark, weird, kinky read. The activities depicted therein are dangerous and are not meant to be an example of realistic BDSM. Reader discretion is advised. Kinks/Fetishes within: erotic humiliation, fearplay, painplay, knifeplay, consensual non-consent (CNC), orgasm denial, boot worship, spanking, crying, blowjobs, clowns, group sexual activities, spit, bondage, public play, bloodplay.

Chemical Engineering in the Pharmaceutical Industry

In a time when the Industrial Revolution has become an all-out war, mad science rules the world—with mixed success. In *Agatha H and the Siege of Mechanicsburg*, Agatha Heterodyne, the last of the Heterodyne family, has returned to her family's hereditary town with the might of the Wulfenbach Empire hot on her heels. The only thing holding off an outright attack is Gilgamesh Wulfenbach, the heir to the Empire, who has joined Agatha and her friends inside the great artificially intelligent fortress of Castle Heterodyne. Now they must race to repair the mechanisms that once allowed the Castle to defend Mechanicsburg, before the rest of Europa shows up to take all the revenge the mad Heterodynes of the past so richly earned. From the Hugo Award-winning *Girl Genius* online comics comes this fourth book in the *Agatha H.* series, and like the previous three books, it will engage you in a unique world of adventure, romance, and mad science!

I Am 9 and Magical

The Dare

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