

Formelsammlung chemische Verfahrenstechnik

Grundoperationen nach Aufgabenstellung

Beispiel: Stofftrennung					
fest/fest	fest/flüssig	fest/gasf.	flüssig/flüssig	flüssig/gasf.	gasf./gasf.
Sortieren, Klassieren, Sortieren, Sortieren, Sortieren, Sortieren	Deaktivieren, Auspressen, Filtrieren, Auslagern, Absorbieren, Extrahieren, Kristallisieren	Destillieren, Schmelzen, Ausbleichen, Sedimentieren, Absorbieren, Zerkleineren	Deaktivieren, Aufschließen, Destillieren, Extrahieren, Rückgelen, Zerkleineren	Ausbleichen, Absorbieren, Ausbleichen, Sedimentieren, Zerkleineren	Absorbieren, Absorbieren, Kondensieren, Zerkleineren, Thermofusion

Grundoperationen nach Prinzipien

Mechanische Verfahren:

- a) Zerkleinern: Mahlen, Schneiden, Zerkleinern
- b) Mischen: Emulgieren, Rühren, Kneten
- c) Trennen: Filtrieren, Entsaften, Klassieren, Sortieren, Auslagern, Waschen
- d) Versetzen, Formen: Pressen, Bräutieren, Pelletieren

Thermische Verfahren:

- a) Wärmeübertragung: Wärmen, Kühlen
- b) Änderung des Aggregatzustandes: Verdampfen, Kondensieren
- c) Mischen: Lösen, Befeuchten, Absorbieren
- d) Trennen: Eindampfen, Kristallisieren, Ab- und Absorbieren, Austrieren, Destillation, Rektifikation, Trocknen, Extrahieren

Fördern und Förderanlagen

- Förderstrom $\dot{V}$:** der von einer Pumpe durch ihren Austrittsquerschnitt geförderte Volumenstrom (Flüssigkeitsvolumen/Zeit)

- Massenstrom:**

$$\dot{m} = \frac{m}{t} = \rho \cdot \frac{V}{t} = \rho \cdot \dot{V}$$

Hubarbeit:

$$W_H = m \cdot g \cdot h$$

$$P/v = p$$

$$\text{Kreisfläche } A = \pi \cdot r^2$$

Leistung:

$$P = \frac{W_H}{t} = \frac{\rho \cdot V \cdot g \cdot h}{t} = \frac{V}{t} \cdot \rho \cdot g \cdot H = \dot{V} \cdot \rho \cdot g \cdot h$$

$$P = m_{\text{pump}} \cdot H : \text{Enthalpie } \text{kg} \cdot \text{m}^2/\text{s}^2$$

Mechanischer Wirkungsgrad:

$$\eta = \frac{P_Q}{P_{el}}$$

P_Q : abgegebene Förderleistung

P_{el} : aufgenommene, elektrische Leistung: l/min: m^3/h

Strömungswiderstand: Reynolds- Zahl:

$$Re = \frac{\bar{u} \cdot d}{\nu} = \frac{\bar{u} \cdot d \cdot \rho}{\eta}$$

Einstellung

laminare Strömung $Re < 2300$
 Übergangsbereich der Strömung $2300 < Re < 10.000$
 turbulente Strömung (Wirbelströmung) $Re > 10.000$

m: Masse: kg

t: Zeit: s

ρ : rho, Dichte: kg/m^3

$\dot{V}$: Volumenstrom: m^3/s

v: Geschwindigkeit: m/s

g: Erdbeschleunigung: m/s^2

h: Höhe: m

P: Leistung: W: J/s : $\text{kg} \cdot \text{m}^2/\text{s}^2$

W: Arbeit: $\text{J} = \text{Nm} = \text{kgm}^2/\text{s}^2$

P: Druck: Pa = $\text{N}/\text{m}^2 = \text{kg}/\text{m} \cdot \text{s}^2$

1bar = 10^5 Pa

1 m^3 = 1000l

1m = 1000mm

1 bar = 100.000 pascal

Re: Reynolds- Zahl : Dimensionslos

u: Strömungsgeschwindigkeit

d: Rohrdurchmesser

ν : kinematische Viskosität: m^2/s

ρ : Roh:

η : dynamische Viskosität: $\nu = \eta/\rho$

Chemische Verfahrenstechnik Skript

Hubertus Knabe



Chemische Verfahrenstechnik Skript:

Fluidverfahrenstechnik Ralf Goedecke, 2011 Diese umfassendste Darstellung des Themas in deutscher Sprache wurde von namhaften Experten aus Hochschule und Industrie geschrieben Grundlagen und Praxis der Fluidverfahrenstechnik werden allgemeinverständlich und mit vielen Praxisbeispielen erklärt Die Studienausgabe enthält den kompletten Inhalt der Erstausgabe über 1200 Seiten mit Expertenwissen die keine Fragen offen lassen Mit seiner breit gefächerten Thematik ist das Buch ein zuverlässiger Begleiter für Planungs- und Betriebsingenieure wie für Neueinsteiger und Hochschulabgänger die Grundlagenwissen in die Praxis umsetzen wollen zeichnet sich neben der Methodik vor allem auch durch den Praxisbezug und das beschriebene Erfahrungswissen aus Es kann als Wissensvermittler Ratgeber und auch als Nachschlagewerk empfohlen werden Filtrieren und Separieren **Chemische Technik**, 1975 *Modellierung des Abtragprozesses der elektrochemischen Senkbearbeitung von Triebwerksschaufeln* Markus Zeis, 2015-05-29 Mithilfe des interdisziplinären Simulationsmodells ist es möglich den komplexen Prozess der Elektrochemischen Metallbearbeitung ECM zur Fertigung moderner Triebwerksschaufeln präzise zu berechnen sodass aufwendige Iterationsschleifen auf Erfahrungsbasis nunmehr der Vergangenheit angehören **Deutsche Bibliographie**; Deutsche Bibliothek (Frankfurt am Main, Germany), 1984 1948 accompanied by Ergänzungsheft 1 2 Neuerscheinungen ausserhalb des Buchhandels Hybridfahrzeuge Peter Hofmann, 2014-08-05 Das Buch beschreibt ausführlich beginnend mit der geschichtlichen Entwicklung die verschiedenen Arten und Klassifizierungen von Hybridfahrzeugen Es wird ferner detailliert dargestellt wie und in welchen Bereichen Verbesserungen und zusätzliche Funktionalitäten durch die Hybridantriebstechnologie in Fahrzeugen ermöglicht werden Eine genaue Erläuterung der Einzelkomponenten und deren Funktionen sowie Beispiele für Antriebsstrangmanagement und Betriebsstrategien vermitteln dem Leser das Verständnis für das Potenzial von Hybridantriebssträngen Eine umfassende Beschreibung und Erklärung der wichtigsten ausgeführten Hybridfahrzeuge im PKW Sektor bis hin zu Anwendungen im LKW und Busbereich schließen das Buch ab Die 2. Auflage berücksichtigt nicht nur die seit Erscheinen der ersten Auflage erreichten Fortschritte auf allen Teilgebieten sondern auch zahlreiche Anregungen der Leser sowie die Beschreibung der neuesten Hybridfahrzeuge Neue Abschnitte über Batteriemanagement und Bordnetzsystemkonzepte Hybridfahrzeuge mit hydraulischen und Schwungradspeichersystemen weitere Synergieeffekte zwischen Verbrennungsmotoren und Elektroantrieben die für Hybridfahrzeuge relevanten Besonderheiten in der Abgasgesetzgebung sowie Verfahren zur Bestimmung des Kraftstoffverbrauches sind ebenfalls in der neuen Auflage enthalten Umfassende Ergänzungen wurden bei Geschichte Prognosen und Definitionen vorgenommen sowie das Kapitel über Betriebsstrategien neu bearbeitet Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Schrifttums, 1990 *Deutsche Nationalbibliographie und Bibliographie des im Ausland erschienenen deutschsprachigen Schrifttums*, 1990 **Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen**

,2004 *ZKG. Zement-Kalk-Gips* ,1975 **Physics Briefs** ,1985 *Energie* Bernd Diekmann,Eberhard

Rosenthal,2013-11-01 In dem vorliegenden Band wird naturwissenschaftlich physikalische Hintergrundinformation zum Thema Energie bereitgestellt um dem Leser objektive Bewertungskriterien für die global hochaktuelle Diskussion der Zukunft unserer Energieversorgung an die Hand zu geben Insbesondere ist es ein zentrales Anliegen dem Leser eine Bilanzierung aller Quellen hinsichtlich der Einflussnahme ihrer Gewinnung und Verwendung auf die Umwelt zu erstellen und das jeweilige Risiko zueinander in Relation zu setzen Nach Festlegung des Begriffes Energie und ihrer Erscheinungsformen werden globale Randbedingungen des Umgangs mit Energie aufgezeigt Diese Randbedingungen werden sodann für Deutschland als typischem Industrieland enger eingegrenzt Die Palette infrage kommender Quellen fossile erneuerbare und nukleare wird sodann im Detail vorgestellt Ergiebigkeit der Ressourcen sowie sonstige Möglichkeiten und Grenzen des Einsatzes werden diskutiert alle Energiequellen werden sodann nach Definition eines energetischen Erntefaktors miteinander verglichen Die Speicher und Transportmöglichkeiten und hiermit eng verbunden die Handlungsspielräume rationellen Umgangs mit den diversen Formen der Energie bilden einen weiteren Schwerpunkt Der an naturwissenschaftlicher Hintergrundinformation interessierte Leser findet in einem gesonderten Kapitel eine detaillierte Präsentation ausgewählter Techniken

Naturwissenschaft und Technik in der DDR Dieter Hoffmann,Kristie Macrakis,1997 Keine ausführliche Beschreibung für Naturwissenschaft und Technik in der DDR verfügbar **Erzmetall** ,1986 **Nachrichten aus Chemie, Technik und Laboratorium** ,1984 *Kürschners deutscher Gelehrtenkalender* Bettina Bartz,Axel Schniederjürgen,Marko Schweizer,2005 **Index of Conference Proceedings** British Library. Document Supply Centre,1989 **Börsenblatt für den deutschen Buchhandel** ,1981 **Die unterwanderte Republik** Hubertus Knabe,1999

Bioverfahrensentwicklung Winfried Storhas,2012-05-21 Bioverfahren haben sich in vielen Bereichen als verlegene Alternativen zu klassischen Produktionsverfahren etabliert und ihre Bandbreite wird immer größer Die Biotechnologie insbesondere unter Einbezug der Gentechnik hat zweifellos Zukunft Die schnelle und effiziente Umsetzung von Forschungsergebnissen in wirtschaftliche Anwendungen birgt ein enormes wirtschaftliches Potential und kaum eine andere Branche wächst derzeit so schnell wie die Biotechnologie Wo sonst gibt es so viele Firmenneugründungen Doch wie schafft man es sich schnell zu orientieren Das vorliegende Buch gibt einen Überblick über die systematische Entwicklung von Bioverfahren Einer Zusammenstellung der unterschiedlichen Varianten der einzelnen Verfahrensschritte folgen die Beschreibung integrierter Gesamtprozesse Wirtschaftlichkeitsbetrachtungen und Verfahrensbeispiele Im Vordergrund stehen dabei Verfahren die bereits eine wichtige Rolle in der Industrie spielen Biotechnologie bedeutet Zukunftstechnologie

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Table of Contents Chemische Verfahrenstechnik Skript

1. Understanding the eBook Chemische Verfahrenstechnik Skript
 - The Rise of Digital Reading Chemische Verfahrenstechnik Skript
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemische Verfahrenstechnik Skript
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chemische Verfahrenstechnik Skript
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemische Verfahrenstechnik Skript
 - Personalized Recommendations
 - Chemische Verfahrenstechnik Skript User Reviews and Ratings
 - Chemische Verfahrenstechnik Skript and Bestseller Lists

5. Accessing Chemische Verfahrenstechnik Skript Free and Paid eBooks
 - Chemische Verfahrenstechnik Skript Public Domain eBooks
 - Chemische Verfahrenstechnik Skript eBook Subscription Services
 - Chemische Verfahrenstechnik Skript Budget-Friendly Options
6. Navigating Chemische Verfahrenstechnik Skript eBook Formats
 - ePub, PDF, MOBI, and More
 - Chemische Verfahrenstechnik Skript Compatibility with Devices
 - Chemische Verfahrenstechnik Skript Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chemische Verfahrenstechnik Skript
 - Highlighting and Note-Taking Chemische Verfahrenstechnik Skript
 - Interactive Elements Chemische Verfahrenstechnik Skript
8. Staying Engaged with Chemische Verfahrenstechnik Skript
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chemische Verfahrenstechnik Skript
9. Balancing eBooks and Physical Books Chemische Verfahrenstechnik Skript
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chemische Verfahrenstechnik Skript
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chemische Verfahrenstechnik Skript
 - Setting Reading Goals Chemische Verfahrenstechnik Skript
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chemische Verfahrenstechnik Skript
 - Fact-Checking eBook Content of Chemische Verfahrenstechnik Skript
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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