

$$\dot{Q}_c = \dot{Q}_h \quad (1)$$

$$\dot{m}_c \times C_{p_c} \times (T_{c,o} - T_{c,i}) = \dot{m}_h \times C_{p_h} \times (T_{h,i} - T_{h,o})$$

q = kalor yang di pindahkan (watt)

C_p = Panas jenis (j/kgK)

\dot{m} = laju aliran massa (kg/s)

T = Temperature (K)

c, h = Fluida dingin, fluida panas

i, o = Masuk, keluar

Rumus Penukar Panas

Mike Jess



Rumus Penukar Panas:

Rekayasa Sistem Termal dan Energi Rahadian Nopriantoko, 2024-03-24 Rekayasa Sistem Termal dan Energi ini merupakan buku referensi yang menjelaskan dengan lengkap dan jelas mengenai rekayasa sistem termal dan energi. Di dalamnya terdapat 27 bab yang membahas semua aspek pengetahuan terkait mencakup berbagai disiplin ilmu yang relevan secara sistematis dan padat. Salah satu keunggulan utama buku ini terletak pada kemampuan menyajikan bacaan yang mudah dipahami dan logis. Isinya tidak hanya memiliki bobot yang substansial tetapi juga komprehensif memberikan gambaran menyeluruh mengenai topik-topik yang dibahas. Karya ini memberikan kontribusi positif sebagai literatur untuk banyak kalangan termasuk akademisi, peneliti, saintis, insinyur praktisi, mahasiswa, dan masyarakat umum. Dengan segala keterbacaan isi dan kebermanfaatannya tersebut, buku ini dapat dianggap sebagai karya unggul di bidangnya. Keseluruhan buku ilmiah ini mampu menjadi sumber referensi yang berharga untuk memahami serta mengembangkan ilmu dan pengetahuan dalam rekayasa sistem termal dan energi.

Aplikasi Excel 2007 dalam Bidang Teknik Mesin + CD,
Menuju abad 21, 1993 Science and technology papers volume commemorating the 15th anniversary of the Agency for Development and Application of Technology *Teknologi tepat guna*, 2008 Technological innovations in several aspects in Indonesia **Warta Pertamina**, 1987 **Inovasi teknologi pertanian**, 1998 Development of technological innovation in Indonesian agricultural industry volume commemorating the 25th anniversary of Badan Penelitian dan Pengembangan Pertanian Berita industri, 1983 **Jurnal pascapanen dan bioteknologi kelautan dan perikanan**, 2007 Studies on fishery technology and marine biotechnology in Indonesia **Jurnal keramik dan gelas Indonesia**, 2010 **Handbook of Heat Transfer Applications** Warren M. Rohsenow, James P. Hartnett, Ejup N. Ganić, 1985 *Handbook of Heat Transfer* Warren M. Rohsenow, 1973 **Heat Transfer Applications for the Practicing Engineer** Louis Theodore, 2011-11-01 This book serves as a training tool for individuals in industry and academia involved with heat transfer applications. Although the literature is inundated with texts emphasizing theory and theoretical derivations, the goal of this book is to present the subject of heat transfer from a strictly pragmatic point of view. The book is divided into four parts: Introduction, Principles, Equipment Design, Procedures and Applications, and ABET related Topics. The first part provides a series of chapters concerned with introductory topics that are required when solving most engineering problems, including those in heat transfer. The second part of the book is concerned with heat transfer principles. Topics that receive treatment include Steady state Heat Conduction, Unsteady state Heat Conduction, Forced Convection, Free Convection, Radiation, Boiling, and Condensation, and Cryogenics. Part three, considered the heart of the book, addresses heat transfer equipment design, procedures, and applications. In addition to providing a detailed treatment of the various types of heat exchangers, this part also examines the impact of entropy calculations on exchanger design and operation, maintenance, and inspection. OM I plus refractory and insulation effects. The concluding part of the text examines ABET Accreditation Board for Engineering and

Technology related topics of concern including economics and finance numerical methods open ended problems ethics environmental management and safety and accident management **Handbook of Heat Transfer** Warren M. Rohsenow, James P. Hartnett, Young I. Cho, 1998-05-22 This wholly revised edition of a classic handbook reference written by some of the most eminent practitioners in the field is designed to be your all in one source book on heat transfer issues and problem solving It includes the latest advances in the field as well as covering subjects from microscale heat transfer to thermophysical properties of new refrigerants An invaluable guide to this most crucial factor in virtually every industrial and environmental process PERPINDAHAN PANAS Fathan Mubina Dewadi, S.T, M.T, IPP., Ir. Maryadi, ST., MT., IPM., ACPE., ASEAN Eng., Yafid Effendi, ST., MT., Dr. Wayan Nata Septiadi, ST., MT, Muhtar, ST., MT., I Putu Tedy Indrayana, M.Sc., Mustaqim, ST., M.Eng., Dr. T. Ir. Luluk Edahwati, MT., Ir. Suprihatin, MT, Eka Murdani, S.Si., M.P.Fis., Yano Hurung Anoi, ST. MT., Rafil Arizona, S.T., M.Eng., 2022-06-28 Buku hasil kolaborasi penulis dalam bentuk book chapter ini memberikan cara mudah untuk memahami dasar dasar perpindahan panas Pembaca akan memperoleh kemampuan untuk merancang dan menganalisis perpindahan panas Buku ini menyajikan perkembangan teoritis contoh masalah desain dan menggambarkan aplikasi praktis dari prinsip prinsip dasar Topik topik pada buku ini diantaranya Klasifikasi perpindahan panas Konsep dasar perpindahan panas Perpindahan panas konduksi Konveksi Perpindahan panas radiasi Mekanisme perpindahan panas gabungan Analogi aliran kalor dan aliran listrik Konveksi paksa dan konveksi bebas Alat penukar kalor Koefisien perpindahan panas keseluruhan Perhitungan kapasitas penukar panas Konduktivitas thermal Pembaca dibuat akrab dengan mekanisme yang berbeda dari perpindahan panas Aplikasi praktis ditunjukkan dalam bentuk soal dan penyelesaiannya Buku ini akan menjadi sumber yang berharga bagi mahasiswa dan insinyur di industri ini *Operasi Perpindahan Massa dan Panas* Gita Indah Budiarti, Shinta Amelia, 2022-11-04 Mata kuliah Operasi Massa dan Panas OPMP merupakan mata kuliah inti teknik kimia tentang fenomena yang terjadi pada saat terjadi perpindahan transfer Hal ini sangat penting bagi seorang sarjana teknik kimia Materi OPMP yang begitu kompleks disertai dengan persoalan studi kasus yang beragam membuat waktu yang disediakan tidak mencukupi apabila disampaikan hanya di kelas Buku ajar ini terdiri atas materi berupa teori penurunan rumus ringkasan rumus rumus penting contoh soal serta soal latihan atau studi kasus Materi yang diulas dalam buku ini antara lain dasar perpindahan berupa pengertian perpindahan massa momentum dan panas penyebab terjadinya fenomena tersebut difusivitas dan perancangan alat alat teknik kimia yang menggunakan prinsip perpindahan massa dan panas PANDUAN PRAKTIKUM PERPINDAHAN KALOR DAN MASSA Joko Waluyo, 2021-12-16 Buku panduan ditujukan sebagai petunjuk pelaksanaan praktikum di Laboratorium Perpindahan Kalor dan Massa Departemen Teknik Mesin dan Industri Fakultas Teknik Universitas Gadjah Mada Pembaca dari kalangan umum juga bisa memanfaatkan buku panduan untuk memandu penyelesaian terkait permasalahan di bidang perpindahan panas heat transfer maupun perpindahan massa mass transfer Buku panduan ini diterbitkan agar peserta praktikum bisa mempelajari dan

memahami lebih awal teori pedoman sebelum pelaksanaan praktikum Peralatan yang tersedia untuk sarana praktikum di Laboratorium Perpindahan Kalor dan Massa antara lain meliputi REFRIGERATING AND CHILING UNIT Merupakan unit pendingin untuk mendemonstrasikan proses refrigerasi siklus kompresi uap menggunakan refrigeran berupa etilen glikol HEAT EXCHANGER BENCH Unit ini mendemonstrasikan kerja alat penukar kalor dengan pengaruh variasi regim aliran terhadap performa transfer kalor ALAT UKUR KONDUKTIVITAS TERMAL Alat ini digunakan untuk mengukur konduktivitas termal suatu bahan dalam berbagai rentang temperatur PENGUKURAN TEMPERATUR DENGAN TERMOKOPEL Merupakan unit yang digunakan untuk mendemonstrasikan pengukuran temperatur menggunakan termokopel beserta time response dan error PERPINDAHAN KALOR RADIASI Alat ini digunakan untuk menentukan faktor bentuk dan emisivitas antara dua permukaan WATERTO AIR HEATTRANSFER APPARATUS Unit ini mendemonstrasikan transfer kalor secara konveksi antara dua fluida yaitu air dan udara MASS AND HEAT TRANSFER EXPERIMENT APPARATUS Merupakan unit yang digunakan untuk mendemonstrasikan kerja dari cooling tower dan transfer kalor antara air hangat dengan udara pendingin RECIRCULATING AIR CONDITIONING UNIT Alat ini digunakan untuk endemonstrasikan proses pengkondisian udara yang mencakup proses pengaturan temperatur dan kelembapan udara Dalam buku panduan ini juga disertai tata tertib yang wajib dilaksanakan oleh peserta praktikum guna menunjang aspek keselamatan selama pelaksanaan praktikum Peserta praktikum juga wajib melakukan rangkaian kegiatan meliputi persiapan pre test penjelasan praktikum pelaksanaan praktikum post test dan pembuatan laporan

Perpindahan panas Soetyono Iskandar, 2015-05-26 Buku kategori MIPA yang berjudul Perpindahan panas teori soal dan penyelesaian merupakan buku karya dari Soetyono Iskandar Buku ini memberikan pandangan yang tertentu yang menuntun mahasiswa dapat untuk dimengerti Pertama bahwa pendapat sekali belajar tidak dapat dilupakan Kami percaya bahwa mahasiswa dapat berkembang percaya diri pada kemampuannya untuk menemukan maksud dari penyelesaian masalah Untuk menemukan penyelesaian masalah Dilengkapi dengan contoh penyelesaian masalah Mahasiswa yang mempelajari dapat lebih mudah menyelesaikan masalah

Perpindahan Kalor dan Massa Ismail Sulaiman, Nida El Husna, Rasdiansyah, Bakhtiar, 2012-11-12 Buku ini ditulis khususnya untuk mahasiswa yang mengambil mata kuliah Perpindahan Kalor dan Massa pada Semester 3 di Jurusan Teknologi Hasil Pertanian Program Studi Teknologi Hasil Pertanian dan bagi setiap orang yang memerlukan pengetahuan tentang topik yang berhubungan dengan kalor dan massa bahan dalam suatu proses pengolahan Buku ini disusun dengan tujuan menjadi bahan rujukan utama bagi mahasiswa program studi Teknologi Hasil Pertanian yang disusun dari beberapa pustaka yang relevan dengan mata kuliah ini Susunan penulisan buku ini berdasarkan acuan RPKPS dari mata kuliah Kimia Organik THP 112 dengan bobot 2 2 0 sks Pada Bab I dituliskan pengantar proses pengolahan dalam hubungannya dengan perubahan massa dan kalor agar mahasiswa dapat mengetahui konsep dasar proses pengolahan Selanjutnya Bab 2 menjelaskan secara khusus tentang konsep konservasi massa pada bahan yang masuk dan keluar proses pengolahan Sebelum menjelaskan tentang fenomena perpindahan massa

maka pada Bab 3 dijelaskan terlebih dahulu konsep dari aliran fluida konsep viskositas reologi jenis aliran fluida selama proses pengolahan Pada Bab 4 dijelaskan secara rinci macam macam pola perpindahan massa bahan selama proses Pada Bab selanjutnya pembahasan buku ini dikhususkan pada penjelasan dengan topik energi khususnya kalor panas Pada Bab 5 dijelaskan terlebih dahulu mengenai dasar dasar termodinamika yaitu mengenai gas ideal pengelompokan energi dan hukum termodinamika Pada dua bab selanjutnya dijelaskan tentang neraca kalor Bab 6 dan diakhiri dengan penjelasan tentang macam macam pola perpindahan kalor

Buku Ajar Perpindahan Panas Perpindahan Panas Pada Evaporator Ratna Sri Harjanti, 2022-07-14 Buku kategori fisika berjudul Buku Ajar Perpindahan Panas Perpindahan Panas Pada Evaporator merupakan karya Ratna Sri Harjanti Perpindahan kalor dari suatu zat ke zat lain seringkali terjadi dalam industri proses Pada kebanyakan proses diperlukan pemasukan atau pengeluaran panas untuk mencapai dan mempertahankan keadaan yang dibutuhkan selama proses berlangsung Perpindahan kalor akan terjadi apabila ada perbedaan temperature antara dua bagian benda Kalor akan berpindah dari benda yang bertemperatur tinggi ke benda yang bertemperatur rendah Buku ajar ini juga dilengkapi dengan alat peraga percobaan yaitu mini evaporator yang dapat dipergunakan untuk lebih memahami cara kerja dan prinsip evaporator Alat peraga yang dipersiapkan ini diharapkan dapat menjadi bekal mahasiswa sebelum mereka mempelajari secara langsung alat sesungguhnya di lokasi PKL

Operasi Perpindahan Massa dan Panas Aswati Mindaryani, Hanifrahmawan Sudibyo, 2021-01-22 Proses transfer massa yang dominan terjadi adalah difusi molekuler dan perpindahan massa secara konveksi Difusi molekuler terjadi tanpa adanya gangguan dalam proses transfer massanya sedangkan perpindahan massa secara konveksi terjadi akibat adanya gangguan dari lingkungan sekitarnya biasanya berupa aliran Driving force dari kedua proses ini adalah adanya perbedaan konsentrasi Untuk melakukan estimasi kecepatan transfer massa tidak hanya nilai perbedaan konsentrasi yang harus diketahui tetapi juga nilai konstanta perpindahan massa seperti difusivitas dan koefisien transfer massa Khusus untuk koefisien transfer massa akan dinyatakan juga dalam bentuk koefisien transfer massa volumetris guna mengakomodasi keterbatasan data mengenai ukuran luas permukaan transfer massa Ketika kecepatan transfer massa sudah dapat diestimasi maka berikutnya penentuan dimensi dari peralatan proses yang berfungsi menjalankan transfer massa seperti menara absorber menara stripper dan bubble column dapat dihitung Perhitungan juga akan mencakup penentuan kondisi operasi yang optimum seperti kebutuhan solven minimum dan juga suhu serta tekanan operasi Tujuannya adalah agar target konsentrasi gas keluar atau gas terserap dapat tercapai Selanjutnya proses transfer massa dapat terjadi secara simultan bersama dengan transfer panas Apabila dua fluida yang berkontak misalnya gas cair memiliki suhu berbeda maka akan terjadi kesetimbangan massa dan panas Contoh yang akan dibahas adalah proses pendinginan air dengan menara pendingin dan pengeringan padatan dengan udara panas Untuk kedua kasus tersebut transfer massa terjadi akibat adanya uap air yang terbawa oleh aliran gas baik karena penguapan maupun akibat terbawa aliran udara dalam bentuk butiran air Kedua fenomena tersebut akan dibahas secara rinci dan diberikan contoh

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