



BOOK REVIEW SERIES



Heat and Mass Transfer

By Dr. D. S. Kumar

Heat And Mass Transfer Ds Kumar

Raffaela Di Napoli



Heat And Mass Transfer Ds Kumar:

Heat & Mass Transfer D. S. Kumar, 2001 *Objective Type Questions in Mechanical Engineering* Singh V.P./ Pratap Raveesh & Akhai Shalom, Useful book for GATE IES UPSC PSUs and other competitive examinations Latest objective type questions with answers About 5000 objective type questions **Basic Of Heat & Mass Transfer(Up)** D. S. Kumar, 2010 **Basic Mechanical Engineering** Dharmendra Singh, Chandra Shekhar Rajoria, 2025-06-01 **Microstructure Evolution, Corrosion, Heat and Mass Transfer Processes** Kamal Amghar, Maryna Storozhenko, Peter Horňak, 2026-03-03 Special topic volume with invited peer reviewed papers only **Smart Technologies for Energy, Environment and Sustainable Development, Vol 2** Mohan Lal Kolhe, S. B. Jaju, P. M. Diagavane, 2022-02-17 This book contains select proceedings of the International Conference on Smart Technologies for Energy Environment and Sustainable Development ICSTEESD 2020 The book is broadly divided into the themes of energy environment and sustainable development and discusses the significance and solicitations of intelligent technologies in the domain of energy and environmental systems engineering Topics covered in this book include sustainable energy systems including renewable technologies energy efficiency techno economics of energy system and policies integrated energy system planning environmental management energy efficient buildings and communities sustainable transportation smart manufacturing processes etc The book will be a valuable reference for young researchers professionals and policy makers working in the areas of energy environment and sustainable development **Heat and Mass Transfer (SI Units)** D. S. Kumar, 2015 *Applications of Fluid Dynamics* M.K. Singh, B.S. Kushvah, G.S. Seth, J. Prakash, 2017-11-04 The book presents high quality papers presented at 3rd International Conference on Applications of Fluid Dynamics ICAFD 2016 organized by Department of Applied Mathematics ISM Dhanbad Jharkhand India in association with Fluid Mechanics Group University of Botswana Botswana The main theme of the Conference is Sustainable Development in Africa and Asia in context of Fluid Dynamics and Modeling Approaches The book is divided into seven sections covering all applications of fluid dynamics and their allied areas such as fluid dynamics nanofluid heat and mass transfer numerical simulations and investigations of fluid dynamics magnetohydrodynamics flow solute transport modeling and water jet and miscellaneous The book is a good reference material for scientists and professionals working in the field of fluid dynamics Modern Achievements and Developments in Manufacturing and Industry P.M. Diaz, K. Palanikumar, P. Ravi Kumar, 2014-07-16 Selected peer reviewed papers from the International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments ICRAMID 2014 March 7 8 2014 Tamis Nadu India **Heat and Mass Transfer** D. S. Kumar, 2008 CFD Simulation Fateh Mebarek-Oudina, 2025-05-19 Information about the author Fateh Mebarek Oudina received his PhD in 2010 He has published more than 120 papers in reputed international journals Currently he works as a full professor at Skikda University in Algeria and regularly serves as a reviewer for more than 250 international journals He is ranked in the Top 2% Scientists Worldwide

2020 2021 2022 2023 by Stanford University His research work is focused on heat and mass transfer MHD mathematical simulation and modelling biofluids nanofluids hybrid nanofluids ternary nanofluids microfluidics and computational fluid dynamics Information about the book Mathematical modeling presented in the book is designed to help engineers understand physical systems including magnetohydrodynamic effects on the non Newtonian fluid flow and multiphase flow Special attention will be given to heat transfer and entropy generation analysis on hybrid nanofluids The process of entropy generation for nanofluid flows through porous channels will also be discussed and analyzed by means of a theoretical approach and CFD modeling Some applications to blood mediated gold silver nanoparticles will be presented with detailed numerical examples The book is designed to facilitate a more profound understanding for engineers of adopting CFD models to natural manufacturing environments Overall the primary objective of the book is to present mathematical modeling with CFD applications to simulate real world engineering industrial and medical science problems to expose various analytical and numerical techniques and at the same time extend to expose researchers and academicians to the recent advancement in these diverse fields

Fabrication of Wear and Corrosion Resistant Materials Gurbhej Singh,Hitesh Vasudev,2025-11-05

Fabrication of Wear and Corrosion Resistant Materials presents cutting edge surface processing methods incorporating concepts from the fields of metallurgy chemistry physics and nanotechnology It covers developments in manufacturing processes that aim to improve materials and components resistance to wear and corrosion Investigating techniques such as plasma treatment laser cladding chemical vapor deposition and nanostructuring the book evaluates each technique by its capability of ensuring durability and resistance to corrosion to prolong the life of materials In addition the book explores smart surfaces digital surface design machine learning tools and biomedical applications It discusses new materials coatings surface treatments and additive manufacturing techniques using an interdisciplinary approach This book is intended for researchers and graduate students studying surface engineering coatings and claddings and corrosion and wear resistance of materials

Repair and Renovation of Concrete Structures Ravindra K. Dhir,M. Roderick Jones,Li Zheng,2005 Preface Introduction Organising Committee Scientific and Technical Committee Collaborating Institutions Sponsoring Organisations with Exhibition Exhibiting Organisations Supporting Institutions Opening Paper Getting it Right From Testing Through Diagnosis to Lasting Repair THEME 1 DEGRADATION OF CONCRETE STRUCTURES Keynote Paper On the Role of Moisture in Degradation of Concrete Structures Condition Survey of Romanian Prestressed Concrete Bridges The Use of Air Entrainment in Bridges and Highway Structures of the USA Influence of Design and Construction Details on Localized Degradation of Concrete Structures Diagnosis and Repair of a Cement Concrete Structure A Case Study of a Residential Building Degradation of Concrete in Structures Water Treatment Infrastructure Models for Environmental Actions on Reinforced Concrete Structures Influence of Desulfurised Combustion Gases on Durability of Cooling Towers Studying the Bond Between Repair Materials and Concrete Substrate Mathematical Modelling of Strike Penetration Processes into

Concrete and Sandy Barriers THEME 2 DEVELOPMENTS IN DIAGNOSTIC TECHNIQUES Keynote Paper Cover Concrete Evaluation The Contribution of GRP Techniques Experimental Studies and Field Measurements Cost Effective Testing of Concrete Structures Defeating Alkali Aggregate Reaction Worldwide Temperature Variations in Concrete Subjected to Cyclic Compressive Loads Consequences for Diagnostic Applications A Study About the Rehabilitation Method of Electrochemical Chloride Extraction in Brazil Loading Tests Practical Experiences Possibilities of Optical Fibre Sensors to Monitor Strength in Concrete Structures Durability of Marine and Coastal Structures The High Quality Cover and Monitoring Approach New Suggestions to Measure the Corrosion Level of Reinforcement Using Infrared Thermographic Technology Fracture Energy of Ultra High Performance Concrete Beams Using Infrared Thermographic Technology Development of an Automatic Crack Recognition System for Concrete Structures A Non Destructive Test to Measure Concrete Permeability Ultrasonic Inspection of Concrete Structure New Steps Towards Transparent Concrete On Bonding Repairing Steel Fibre Reinforced Concrete to Hardened Concrete Condition Assessment of RC Structures by Electro Chemical Method Linear Polarization and Accelerated Carbonation Experiments THEME 3 REPAIR MATERIALS AND METHODS Keynote Paper New Materials Concepts and Quality Control Systems for Strengthening Concrete Construction Repair of Foundation for Large Compressor On the Use of Non Adequate Primers to the Reinforcing Steel in Concrete Localised Repairs Evaluating External CFRP Strips and Internal MMFX Steel Shear Bars for Shear Strengthening of Precast Concrete Channel Beams Evaluation of Corrosion Inhibitors for Remediation of St Mary s Multi Storey Car Park Colchester Improving Efficiency in the Galvanic Cathodic Protection of Concrete Structures Re alkalisation of Carbonated Concrete by Alkalline Solutions Absorption and Diffusion Mechanisms External CFRP Tendons for Bridge Strengthening in Austria Anchorage of Additional External Prestressing Tendons Determination of Ductility and Deformability Undeces for FRP Strengthened RC Slabs Use of FRP Materials for Strengthening Concrete Structures Effect of Temperature on the Durability of Systems of Strengthening of Concrete Structures Axial Compressive Strength of Reinforced Concrete Columns Wrapped with Fibre Reinforced Polymers FRP Efficiency of Hybrid FRP Sheets in Strengthening Concrete Beams Embedded Fibre Bragg Grating Sensors for Monitoring the Health of Concrete Structures Performances of Bonded An

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