



Gas Exchangers

John N. Maina



Gas Exchangers:

The Gas Exchangers John N. Maina, 2012-12-06 Amongst animals diversity of form and of environmental circumstances have given rise to a multitude of different adaptations subserving the relatively unified patterns of cellular metabolism. Nowhere else is this state of affairs better exemplified than in the realm of respiration. Jones 1972. The field of comparative respiratory biology is expanding almost exponentially. With the ever improving analytical tools and methods of experimentation its scope is blossoming to fascinating horizons. The innovativeness and productivity in the area continue to confound students as well as specialists. The increasing wealth of data makes it possible to broaden the information base and meaningfully synthesize, rationalize, reconcile, redefine, consolidate and offer empirical validation of some of the earlier anecdotal views and interpretations, helping resolve the issues into adequately realistic and easily perceptible models. Occasional reflections on the advances made as well as on the yet unresolved problems help chart out new grounds, formulate new concepts and stimulate inquiry. Moreover, timely assessments help minimize isolation among investigators, averting costly duplication of effort. This exposition focuses on the diversity of the design of the gas exchangers and gives a critical appraisal of the plausible or constrained the involvement of respiration. The factors that have motivated cause and effect relationship between the phylogenetic, developmental and environmental factors, conditions and states which at various thresholds and under certain backgrounds conspired in molding the gas exchangers is argued. **Fundamental Structural**

Aspects and Features in the Bioengineering of the Gas Exchangers: Comparative Perspectives J.N. Maina, 2012-12-06 The history of biology is replete with examples of how comparative biology helped clarify the meaning of structure and function in complex animals. Indeed, without the comparative approach to biology the birth of physiology would have been delayed. Fishman 1979. Comparative morphologists are challenged to discern the changes that have occurred in evolution and development of the forms and states of organisms as well as to explain the factors that compelled them. e.g. Dullemeijer 1974. The main objective of this contribution is to present what I deem to be some of the fundamental structural aspects in the design of respiratory organs while debating and speculating on when, how and why these states were founded. My main thesis is that the modern gas exchangers are products of protracted processes that have entailed adaptation to specific environments and lifestyles. Only those feasible designs that have proven adequately competent in meeting demands for molecular oxygen have been preserved. Unfortunately, August Krogh's Krogh 1941 and Pierre Dejours Dejours 1975 seminal works on the comparative physiology of the respiratory organs have not been paralleled by equally extensive and detailed morphological work. Our approach has been to look into the limiting functional properties as regards the respiratory capacities of gas exchangers while finding out the specific structural adaptations that have evolved to meet the metabolic needs or to look into form and to discern how it limits function. This has allowed a deduction of structure-function correlation.

Bioengineering Aspects in the Design of Gas Exchangers John N. Maina, 2011-06-24 This book encapsulates over

three decades of the author's work on comparative functional respiratory morphology. It provides insights into the mechanisms by which respiratory means and processes originated and advanced to their modern states. Pertinent cross-disciplinary details and facts have been integrated and reexamined in order to arrive at more robust answers to questions regarding the basis of the functional designs of gas exchangers. The utilization of oxygen for energy production is an ancient process the development and progression of which were underpinned by dynamic events in the biological, physical and chemical worlds. Many books that have broached the subject of comparative functional respiratory biology have only described the form and function of the end product, the gas exchanger; they have scarcely delved into the factors and the conditions that motivated and steered the development from primeval to modern respiratory means and processes. This book addresses and answers broad questions concerning the critical synthesis of multidisciplinary data and clarifies previously cryptic aspects of comparative respiratory biology. Research and Development of a Liquid-gas Contractor for Photosynthetic Gas Exchangers Harold Wallman, J. L. Dodson, V. A. Speziali, A. E. Rabe, R. J. Nickerson, R. R. Cordeiro, 1962

Fundamentals of Natural Gas Processing, Third Edition Arthur J. Kidnay, William R. Parrish, Daniel G. McCartney, 2019-10-01. Offering indispensable insight from experts in the field, *Fundamentals of Natural Gas Processing, Third Edition* provides an introduction to the gas industry and the processes required to convert wellhead gas into valuable natural gas and hydrocarbon liquids products including LNG. The authors compile information from the literature, meeting proceedings, short courses and their own work experiences to give an accurate picture of where gas processing technology stands today as well as to highlight relatively new technologies that could become important in the future. The third edition of this bestselling text features updates on North American gas processing and changing gas treating requirements due to shale gas production. It covers the international nature of natural gas trade, LNG economics and more. To help nonengineers understand technical issues, the first 5 chapters present an overview of the basic engineering concepts applicable throughout the gas oil and chemical industries. The following 15 chapters address natural gas processing with a focus on gas plant processes and technologies. The book contains 2 appendices. The first contains an updated glossary of gas processing terminology. The second is available only online and contains useful conversion factors and physical properties data. Aimed at students as well as natural gas processing professionals, this edition includes both discussion questions and exercises designed to reinforce important concepts, making this book suitable as a textbook in upper level or graduate engineering courses.

Fundamentals of Natural Gas Processing Arthur J. Kidnay, William R. Parrish, 2006-06-21. *Fundamentals of Natural Gas Processing* explores the natural gas industry from the wellhead to the marketplace. It compiles information from the open literature, meeting proceedings and experts to accurately depict the state of gas processing technology today and highlight technologies that could become important in the future. This book covers Fundamentals of Heat Exchanger Design Ramesh K. Shah, Dusan P. Sekulic, 2003-08-11. Comprehensive and unique source integrates the material usually distributed among a

half a dozen sources Presents a unified approach to modeling of new designs and develops the skills for complex engineering analysis Provides industrial insight to the applications of the basic theory developed *Heat Exchanger Design Handbook* Kuppan Thulukkanam,2000-02-23 This comprehensive reference covers all the important aspects of heat exchangers HEs their design and modes of operation and practical large scale applications in process power petroleum transport air conditioning refrigeration cryogenics heat recovery energy and other industries Reflecting the author s extensive practical experienc *Standard Methods of Hydraulic Design for Power Boilers* V. A. Lokshin,1988 **Tadpoles** Roy W. McDiarmid,Ronald Altig,1999-11 In our own juvenile stage many of us received our wide eyed introduction to the wonders of nature by watching the metamorphosis of swimming tadpoles into leaping frogs and toads The recent alarming declines in amphibian populations worldwide and the suitability of amphibians for use in answering research questions in disciplines as diverse as molecular systematics animal behavior and evolutionary biology have focused enormous attention on tadpoles Despite this popular and scientific interest relatively little is known about these fascinating creatures In this indispensable reference leading experts on tadpole biology relate what we currently know about tadpoles and what we might learn from them in the future Tadpoles provides detailed summaries of tadpole morphology development behavior ecology and environmental physiology explores the evolutionary consequences of the tadpole stage synthesizes available information on their biodiversity and presents a standardized terminology and an exhaustive literature review of tadpole biology *Heat Exchanger Design Handbook, Second Edition* Kuppan Thulukkanam,2013-05-20 Completely revised and updated to reflect current advances in heat exchanger technology Heat Exchanger Design Handbook Second Edition includes enhanced figures and thermal effectiveness charts tables new chapter and additional topics all while keeping the qualities that made the first edition a centerpiece of information for practicing engineers research engineers academicians designers and manufacturers involved in heat exchange between two or more fluids See What s New in the Second Edition Updated information on pressure vessel codes manufacturer s association standards A new chapter on heat exchanger installation operation and maintenance practices Classification chapter now includes coverage of scrapped surface graphite coil wound microscale and printed circuit heat exchangers Thorough revision of fabrication of shell and tube heat exchangers heat transfer augmentation methods fouling control concepts and inclusion of recent advances in PHEs New topics like EMbaffle Helixchanger and Twistedtube heat exchanger feedwater heater steam surface condenser rotary regenerators for HVAC applications CAB brazing and cupro braze radiators Without proper heat exchanger design efficiency of cooling heating system of plants and machineries industrial processes and energy system can be compromised and energy wasted This thoroughly revised handbook offers comprehensive coverage of single phase heat exchangers selection thermal design mechanical design corrosion and fouling FIV material selection and their fabrication issues fabrication of heat exchangers operation and maintenance of heat exchangers all in one volume **Development of Cardiovascular Systems** Warren W.

Burggren, Bradley B. Keller, 1997 This volume is a unique overview of cardiovascular development from the cellular to the organ level across a broad range of species The first section focuses on the molecular cellular and integrative mechanisms that determine cardiovascular development The second section has eight chapters that summarize cardiovascular development in invertebrate and vertebrate systems The third section discusses the effects of disease and environmental and morphogenetic influences on nonmammalian and mammalian cardiovascular development It includes strategies for the management of congenital cardiovascular malformations in utero and postnatally

Biological Systems in Vertebrates, Vol. 1 J N Maina, 2019-04-23 Gives an account of the morphologies of vertebrate respiratory organs and attempts to explicate the basis of the common and different structural and functional designs and stratagems that have evolved for acquisition of molecular oxygen The book has been written with a broad readership in mind students of biology as well as experts in the disciplines of zoology physiology morphology biological microscopy biomedical engineering and ecology and those that work or may contemplate working on materials and aspects concerning respiration in whole organisms will find it useful Scientists in earth sciences with particular interest on the outcomes of past interactions between environmental factors the physical domain and evolution and adaptation the biological domain mechanisms that have set the composition patterning and anatomies of extant animal life will find the book of interest

Current Perspectives on the Functional Design of the Avian Respiratory System John N. Maina, 2023-09-13 Birds have and continue to fascinate scientists and the general public While the avian respiratory system has unremittingly been investigated for nearly five centuries important aspects on its biology remain cryptic and controversial In this book resolving some of the contentious issues developmental structural and functional aspects of the avian lung air sac system are particularized it endeavors to answer following fundamental questions on the biology of birds how when and why did birds become what they are Flight is a unique form of locomotion It considerably shaped the form and the essence of birds as animals An exceptionally efficient respiratory system capacitated birds to procure the exceptionally large quantities of oxygen needed for powered active flight Among the extant air breathing vertebrates comprising 11 000 species birds are the most species rich numerically abundant and extensively distributed animal taxon After realizing volancy they easily overcame geographical obstacles and extensively dispersed into various ecological niches where they underwent remarkable adaptive radiation While the external morphology of birds is inconceivably uniform for such a considerably speciose taxon contingent on among other attributes lifestyle habitat and phylogenetic level of development have foremost determined the novelties that are displayed by diverse species of birds Here critical synthesizes of the most recent findings with the historical ones evolution and behavior and development structure and function of the exceptionally elaborate respiratory system of birds are detailed The prominence of modern birds as a taxon in the Animal Kingdom is underscored The book should appeal to researchers who are interested in evolutionary processes and how adaptive specializations correlate with biological physiognomies and exigencies comparative biologists

who focus on how various animals have solved respiratory pressures people who study respiration in birds and other animals and ornithologists who love and enjoy birds for what they are profoundly interesting animals *The Recovery of Gasoline from Natural Gas* George Arthur Burrell,1925 Hydrocarbon Processing & Petroleum Refiner ,1928 **Handbook of Energy Efficiency and Renewable Energy** D. Yogi Goswami, Frank Kreith, 2007-05-07 Brought to you by the creator of numerous bestselling handbooks the Handbook of Energy Efficiency and Renewable Energy provides a thorough grounding in the analytic techniques and technological developments that underpin renewable energy use and environmental protection The handbook emphasizes the engineering aspects of energy conservation and renewable energy Taking a world view the editors discuss key topics underpinning energy efficiency and renewable energy systems They provide content at the forefront of the contemporary debate about energy and environmental futures This is vital information for planning a secure energy future Practical in approach the book covers technologies currently available or expected to be ready for implementation in the near future It sets the stage with a survey of current and future world wide energy issues then explores energy policies and incentives for conservation and renewable energy covers economic assessment methods for conservation and generation technologies and discusses the environmental costs of various energy generation technologies The book goes on to examine distributed generation and demand side management procedures and gives a perspective on the efficiencies economics and environmental costs of fossil and nuclear technologies Highlighting energy conservation as the cornerstone of a successful national energy strategy the book covers energy management strategies for industry and buildings HVAC controls co generation and advances in specific technologies such as motors lighting appliances and heat pumps It explores energy storage and generation from renewable sources and underlines the role of infrastructure security and risk analysis in planning future energy transmission and storage systems These features and more make the Handbook of Energy Efficiency and Renewable Energy the tool for designing the energy sources of the future **A Study of Finned Tube Gas-to-liquid Heat Exchangers for Brayton Cn Cycles in Space** S. V. Manson, 1966 **Classification Bulletin of the United States Patent Office ...** United States. Patent Office, 1907 **The Oil and Gas Journal** , 1927

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