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A series of six books for Classes IX and X according to the CBSE syllabus This book focuses on biogas production by anaerobic digestion, which is the most popular bioenergy technology of today. Using anaerobic digestion for the production of biogas is a sustainable approach that simultaneously also allows the treatment of organic waste. The energy

contained in the substrate is released in the form of biogas, which can be employed as a renewable fuel in diverse industrial sectors. Although biogas generation is considered an established process, it continues to evolve, e.g. by incorporating modifications and improvements to increase its efficiency and its downstream applications. The chapters of this book review the progress made related to feedstock, system configuration and operational conditions. It also addresses microbial pathways utilized, as well as storage, transportation and usage of biogas. This book is an up-to-date resource for scientists and students working on improving biogas production. Faecal Sludge and Septage Treatment confronts the urgent need to treat increasing volumes of faecal sludge and septage in the rapidly expanding towns and cities of the global south. It discusses the urban contexts that influence treatment requirements and the overall septage treatment processes. Of all the facets (to put it nicely) of marine aquarium keeping that turn off hobbyists, likely none surpasses dealing with pest algae. Normal maintenance of our systems can be a breeze; not taking much time or physical exercise, given that time in investigation and proper set-up has been accomplished. However, run-away algal problems can be proverbial plagues... not only ugly to even smelly messes, but a root cause of livestock malingering and loss. The purpose of this book is to share with you how to avoid pest algae problems; and if they do occur, how to identify the source/s, the algae themselves and effectively solve (reduce to eliminate) noisome, unwelcome algae from your tanks. Avoiding Algae Problems: From the start, I want to impress upon you that while algae presence to some degree is entirely natural; to be expected in all systems suitable to support aquatic life; and the situations where there is an overabundance of undesirable species biomass is not! To put this another way; DO expect some appreciable algae presence/growth in any/all

viable aquatic biological systems; and DO be aware, observant concerning their over-proliferation in your aquariums... pro-active in limiting their over-abundance; for several good reasons: Pest algaes penchant for overgrowing/crowding out other desired life, using up too much of nutrients and minerals you may want/need for other chemosynthetic, photosynthetic life; and importantly; to limit the amount/concentration of metabolites these algae produce that may mal-affect your livestock; sometimes profoundly. At one time, Hooke was a research assistant to Robert Boyle. He is believed to be one of the greatest inventive geniuses of all time and constructed one of the most famous of the early compound microscopes. From Waste to Value investigates how streams of organic waste and residues can be transformed into valuable products, to foster a transition towards a sustainable and circular bioeconomy. The studies are carried out within a cross-disciplinary framework, drawing on a diverse set of theoretical approaches and defining different valorisation pathways. Organic waste streams from households and industry are becoming a valuable resource in today's economies. Substances that have long represented a cost to companies and a burden for society are now becoming an asset. Waste products, such as leftover food, forest residues and animal carcasses, can be turned into valuable products such as biomaterials, biochemicals and biopharmaceuticals. Exploiting these waste resources is challenging, however. It requires that companies develop new technologies and that public authorities introduce new regulation and governance models. This book helps policy-makers govern and regulate bio-based industries, and helps industry actors to identify and exploit new opportunities in the circular bioeconomy. Moreover, it provides important insights for all students and scholars concerned with renewable energy, sustainable development and climate

change. Considers the features common to bacteria that need light to grow, focusing on those features important in nature and useful in industrial applications. Because the species are scattered across the taxonomic chart, they have little in common except the physiology of photosynthesis and ecological dis International Review of Cytology From the 1920s when he watched his father, a general practitioner who made housecalls and wrote his prescriptions in Latin, to his days in medical school and beyond, Lewis Thomas saw medicine evolve from an art into a sophisticated science. The Youngest Science is Dr. Thomas's account of his life in the medical profession and an inquiry into what medicine is all about--the youngest science, but one rich in possibility and promise. He chronicles his training in Boston and New York, his war career in the South Pacific, his most impassioned research projects, his work as an administrator in hospitals and medical schools, and even his experiences as a patient. Along the way, Thomas explores the complex relationships between research and practice, between words and meanings, between human error and human accomplishment, More than a magnificent autobiography, The Youngest Science is also a celebration and a warning--about the nature of medicine and about the future life of our planet. With transitions to more sustainable ways of living already underway, this book examines how we understand the underlying dynamics of the transitions that are unfolding. Without this understanding, we enter the future in a state of informed bewilderment. Every day we are bombarded by reports about ecosystem breakdown, social conflict, economic stagnation and a crisis of identity. There is mounting evidence that deeper transitions are underway that suggest we may be entering another period of great transformation equal in significance to the agricultural revolution some 13,000 years ago or the Industrial Revolution 250 years ago. This book helps readers make sense of our

global crisis and the dynamics of transition that could result in a shift from the industrial epoch that we live in now to a more sustainable and equitable age. The global renewable energy transition that is already underway holds the key to the wider just transition. However, the evolutionary potential of the present also manifests in the mushrooming of ecocultures, new urban visions, sustainability-oriented developmental states and new ways of learning and researching. Shedding light on the highly complex challenge of a sustainable and just transition, this book is essential reading for anyone concerned with establishing a more sustainable and equitable world. Ultimately, this is a book about hope but without easy answers. Make Change is a little handbook for creative rebels that want to do big things. With the goal of empowering and equipping anyone to be an agent of change, the handbook positions social and environmental sustainability as an inherent nexus and core driver. Weaving through a stockpile of historic and contemporary theories and practice opportunities, Make Change guides us through an essential exploration of human behaviour, unpacking brain chemistry, psychological, behavioral and social theories to understand existing systems and how we make decisions within them. The author's logic is that through comprehending existing systems, anyone can intervene to affect, influence and disrupt norms and behaviors with human choice and motivators. Make Change provides practical and theoretical grounding that helps readers craft intended interventions, using systems to enable and enact positive world changing outcomes. This book presents a series of integrated papers on the latest techniques and concepts for understanding the fossil record of primates; including humans. Papers review the dating of primate fossil finds from many areas of the world, as well as the status and importance of recent discoveries of fossils linking the monkeys and apes to humans. Further

contributions compare the anatomy and growth of living primates to that of the ancestral animals in order to give an understanding of trends in evolution. A final section discusses the application of recently developed genetic techniques to interpret and explain the evolution of primates. By presenting the most recent research, this volume provides a valuable synthesis of the new developments in primate and human evolution. Garden Myths examines over 120 horticultural urban legends. Turning wisdom on its head, Robert Pavlis dives deep into traditional garden advice and debunks the myths and misconceptions that abound. He asks critical questions and uses science-based information to understand plants and their environment. Armed with the truth, Robert then turns this knowledge into easy-to-follow advice. - Is fall the best time to clean the garden? - Do bloom boosters work?- Will citronella plants reduce mosquitoes in the garden?- Do pine needles acidify soil?- Should tomatoes be suckered?- Should trees be staked at planting time? - Can burlap keep your trees warm in winter?- Will a pebble tray increase humidity for houseplants? "Garden Myths is a must-read for anyone who wants to use environmentally sound practices. This fascinating and informative book will help you understand plants better, reduce unnecessary work, convince you to buy fewer products and help you enjoy gardening more." Elegant, suggestive, and clarifying, Lewis Thomas's profoundly humane vision explores the world around us and examines the complex interdependence of all things. Extending beyond the usual limitations of biological science and into a vast and wondrous world of hidden relationships, this provocative book explores in personal, poetic essays to topics such as computers, germs, language, music, death, insects, and medicine. Lewis Thomas writes, "Once you have become permanently startled, as I am, by the realization that we are a social species, you tend to keep an eye out for the

pieces of evidence that this is, by and large, good for us." What is biotechnology? -- The Raw materials of biotechnology -- The Basic skills of the biotechnology workplace -- Introduction to studying DNA -- Introduction to studying proteins -- Identifying a potential biotechnology product -- Spectrophotometers and assays for biotechnology products -- The Production of a recombinant biotechnology product -- Bringing a biotechnology product to market -- Introduction to plant biotechnology -- Biotechnology in agriculture -- Biotechnology in medicine -- Making DNA molecules -- Advanced biotechnology techniques. If you look at a piece of a leaf or a drop of saliva through a microscope, what do you see? Cells are the basic building blocks of life and they make up every living thing, from plants to animals, from humans to bacteria! In Cells: Experience the World at Its Tiniest, readers ages 12 to 15 investigate cells and learn how they affect our health, reproduction, criminal investigations, and agriculture. More than 250 years ago, scientists discovered that all living things are made up of cells. Since then, cell science has been a foundational step on the path to understanding why living things function and develop and how we can use our knowledge of cells to improve human life. Through cell science, scientists have been able to create many things to help society, such as seeds that grow better in certain locations, which increases the amount of crops to better feed the world. The criminal justice system now uses DNA to prove whether people committed crimes or not, helping to ensure that innocent people aren’t punished for crimes they didn’t commit. Through the study of certain cells, scientists have been able to create immunizations and medicines that have virtually eliminated some diseases, such as smallpox, which once killed almost a third of the people who caught it. This book will also encourage readers to examine the controversy that surrounds the way scientists use some types

of cells. To reinforce learning and encourage investigation, hands-on activities include finding and identifying bacteria from pond water and human mouths and building models of different types of cells. Links to online primary sources, videos, and other relevant websites provide a digital learning component that appeals to this age group and promotes further, independent learning while strengthening practical connections to the material. Additional materials include a glossary and a list of current reference works, websites, and Internet resources. Current economic growth strategies are rapidly depleting natural resources and eco-systems. Just Transitions provides a comprehensive overview of these global challenges from a global South perspective. How do developing countries eradicate poverty via economic development while encountering the consequences of global warming and dwindling supplies of clean water, productive soils, cheap oil, minerals and other resources? This book considers a just transition which reconciles the sustainable use of natural resources with a pervasive commitment to sufficiency (where over-consumers are satisfied with less so that under-consumers can secure enough). Case studies drawn from Africa detail the challenges, but they are set in the context of global trends. The authors conclude with their experience of building a community that aspires to live sustainably. Most people know that there are 70 million Baby Boomers in America today....but what is less known is that there are approximately 100 million people in America between the ages of 16 and 30. This generation has just entered, or will soon be entering the work force. And they have no idea how to invest, save, or handle their money. Young people today come out of school having had little or no formal education on the basics of money management. Many have large debts from student loans looming over their heads. And many feel confused and powerless when their pricey

educations don't translate into high paying jobs. They feel that their $30,000-$40,000 salary is too meager to bother with investing, and they constantly fear that there will be "too much month left at the end of their money." Douglas R. Andrew has shown the parents of this generation a different pathway to financial freedom. Now Doug and his sons, Emron and Aaron - both of whom are in their mid-20s - show the under-30 crowd how they can break from traditional 401k investment plans and instead can find a better way by investing in real estate, budgeting effectively, avoiding unnecessary taxes and using life insurance to create tax-free income. With the principles outlined in Millionaire by Thirty, recent graduates will be earning enough interest on their savings to meet their basic living expenses by the time they're 30. And by the time they're 35, their investments will be earning more money than they are, guaranteeing them a happy, wealthy future. This work deals with basic plant physiology and cytology, and addresses the practical exploitation of plants, both as crops and as sources of useful compounds produced as secondary metabolites. Covers problems of commercial exploitation, socio-legal aspects of genetic engineering of crop plants, and of the difficulties of marketing natural compunds produced by cells under artificial conditions. Principles of Physics is a well-established popular textbook which has been completely revised and updated. Incorporating 25 years of sales forecasting management research with more than 400 companies, Sales Forecasting Management, Second Edition is the first text to truly integrate the theory and practice of sales forecasting management. This research includes the personal experiences of John T. Mentzer and Mark A. Moon in advising companies how to improve their sales forecasting management practices. Their program of research includes two major surveys of companies' sales forecasting practices, a two-year, in-depth study

of sales forecasting management practices of 20 major companies, and an ongoing study of how to apply the findings from the two-year study to conducting sales forecasting audits of additional companies. The book provides comprehensive coverage of the techniques and applications of sales forecasting analysis, combined with a managerial focus to give managers and users of the sales forecasting function a clear understanding of the forecasting needs of all business functions. This book analyzes and elucidates the nature of predictable changes on the world's agricultural system caused by the so-called greenhouse effect. Its aim is to educate students at the undergraduate level about how the climatic factors affecting agriculture may be modified in the future, andwhat practical adaptations might be undertaken to prevent or overcome any possible adverse impacts on our ability to feed the world's population. The book draws on several complimentary disciplines, including atmospheric science, hydrology, soil science, crop physiology, and resource economics, andintegrates the relevant aspects of these fields. This book provides useful information about bioremediation, phytoremediation, and mycoremediation of wastewater and some aspects of the chemical wastewater treatment processes, including ion exchange, neutralization, adsorption, and disinfection. Additionally, this book elucidates and illustrates the wastewater treatment plants in terms of plant sizing, plant layout, plant design, and plant location. Cutting-edge topics include wet air oxidation of aqueous wastes, biodegradation of nitroaromatic compounds, biological treatment of sanitary landfill leachate, bacterial strains for the bioremediation of olive mill wastewater, gelation of arabinoxylans from maize wastewater, and modeling wastewater evolution. This book presents key recent developments in biofuel policy, products, processes, patents and innovative technologies. It presents several case studies, which maximize

reader insights into how innovative green energy technologies can be implemented on an industrial scale, with illustrations, photos and new approaches. It also analyzes in detail several different technological aspects of the research into and production of green fuels from the first, second and third generation, such as, bioethanol, biogas, biohydrogen, biobutanol, biofuels from pyrolysis, and discusses their economic and environmental impacts. A new source of information for engineers, technicians and students involved in production and research in the biofuels sector, this book also provides a valuable resource for industry, covering the current and future status of biofuels.

- Wastewater Treatment Engineering
- Applications Of Plant Cell And Tissue Culture
- Biogas Processes For Sustainable Development
- Make Change
- International Review Of Cytology
- Sales Forecasting Management
- The Lives Of A Cell
- Photosynthetic Prokaryotes
- The Youngest Science
- Principles Of Physics
- Test Bank CD ROM
- Glencoe Health
- Gasifiers
- Marine Aquarium Algae Control
- TAXONOMY OF ANGIOSPERMS
- Climate Change And The Global Harvest
- Just Transitions