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Autore	Ernout, Alfred
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Pubbl/distr/stampa	Paris : Société d'édition "Les Belles lettres", 1925 -
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Collana	Collection de commentaires d'auteurs anciens
Altri autori (Persone)	Epicurus Robin, Léo
Soggetti	Lucrezio Caro, Tito Lucrezio Caro, Tito
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Nota di contenuto	<p>1. Introduction --</p> <p>2. Climate change and theories -- 2.1 Introduction -- 2.2 Milankovitch theory -- 2.3 Sunspot cycle -- 2.4 Sea surface temperature and pressure oscillations in the Pacific Ocean -- 2.5 Sea surface temperature and pressure oscillations in the Atlantic Ocean -- 2.6 Discussion and conclusion -- References --</p> <p>3. The second law of thermodynamics and heat discharge to the environment by human activities -- 3.1 Background -- 3.2 Discussion and proof -- 3.3 Conclusion -- References --</p> <p>4. Greenhouse effect and climate change -- 4.1 Background -- 4.2 Understanding electromagnetic radiation -- 4.3 Planck's law and radiated energy -- 4.4 Greenhouse effect -- 4.5 Characteristics of a greenhouse gas -- 4.6 Evidence of global climate changes -- References --</p> <p>5. Anthropogenic heat release into the environment -- 5.1 Introduction and statement -- 5.2 Hypothesis of method and the method -- 5.3 Heat based on world energy consumption -- 5.4 Heat from net electricity generation -- 5.5 Heat from oil refineries -- 5.6 Heat from garbage incineration -- 5.7 World output of carbon dioxide -- 5.8 Heat from formation of sulfur dioxide from combustion -- 5.9 Heat from animal bodies -- 5.10 Discussion and conclusion -- 5.11 Nomenclature -- References --</p> <p>6. Climate change and all evidences of global warming -- 6.1</p>

Introduction -- 6.2 Mean temperature changes -- 6.3 Arctic ice caps -- 6.4 Wildlife and extinction -- 6.5 Weather patterns -- 6.6 Solutions -- References --

7. Mitigation and adaptation responses to sea level rise -- 7.1 Introduction -- 7.2 Literature about rising seas -- 7.3 Mitigation responses -- 7.4 Adaptation responses -- 7.5 Discussion and conclusion -- References --

8. Freshwater discharges into the oceans -- 8.1 Background -- 8.2 Lower and higher latitudes -- 8.3 Groundwater discharge and anthropogenic contributions -- References --

9. Wealth of the oceans -- 9.1 Introduction -- 9.2 Current status -- 9.3 Literature survey -- 9.4 Research and development -- 9.5 Discussion and conclusion -- References --

10. Forests and jungles brake climate change -- 10.1 Photosynthesis -- 10.2 Costa Rica -- 10.3 Nicaragua -- 10.4 Haiti -- 10.5 The Amazon jungle -- 10.6 Indonesia -- 10.7 Discussion and conclusion -- References --

11. Atmospheric carbon dioxide removal via technology -- 11.1 Introduction -- 11.2 Carbon dioxide removal -- 11.3 Biochar -- 11.4 Artificial trees -- 11.5 Enhanced weathering -- 11.6 Bio-energy with carbon capture and storage -- 11.7 Carbon dioxide capture "trapping" procedures -- 11.8 Carbon dioxide sequestration procedures -- 11.9 Media for biological systems -- 11.10 Production of biofuel -- 11.11 Discussion and conclusion -- References --

12. Use of satellite images for observational and quantitative analysis of urban heat islands around the world -- 12.1 Introduction -- 12.2 Urban heat island effect -- 12.3 Landsat -- 12.4 Image selection -- 12.5 Thermal images -- 12.6 Quantitative differentiation -- 12.7 Discussion and conclusion -- References -- Thermal images of cities analyzed -- Urban-rural differential images of cities analyzed --

13. Climate change aggravates the energy-water-food nexus -- 13.1 Introduction -- 13.2 Energy-water-food nexus -- 13.3 The Himalayas -- 13.4 The effect of climate change on glaciers -- 13.5 The effect of climate change on the Indus River -- 13.6 The effect of climate change on the South Asian monsoons -- 13.7 Recommendations to enhance energy, water, food security -- 13.8 Discussion and conclusion -- References --

14. Innovations related to hydrology in response to climate change, a review -- 14.1 Introduction -- 14.2 Agricultural demands -- 14.3 Solar drip irrigation -- 14.4 Wastewater reuse -- 14.5 Optimal resource management -- 14.6 Nanotechnology -- 14.7 Conventional wastewater treatment -- 14.8 Membrane bioreactors -- 14.9 Biofilters -- 14.10 Groundwater -- 14.11 Comparison of MBRs and AS plants -- 14.12 Discussion and conclusion -- References --

15. A balanced view -- Index.

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Sommario/riassunto

Climate Change is a collection of a number of papers as well as chapters about the science of the subject. This collection is meant to inflame and excite conversation among engineers, scientists, and society at large. It would serve as a catalyst for a three-credit course, as a relatively new engineering subject, for both engineering and nonengineering university students. As university education develops to better prepare future leaders to appreciate science, technology, engineering, and mathematics, engineering courses for a mix of engineering and nonengineering majors are essential and so is the requirement for worthy textbooks. This monograph intends to be one of the useful tools available on this timely topic. The wide range of topics includes climate change and theories, the second law of thermodynamics, the global greenhouse effect, anthropogenic heat

release, evidence around us owing to environmental change, sea level rise, jungles and forests, heat islands, atmospheric carbon dioxide removal via technology, nanotechnology, other innovations in response to climate change, and the energy-water-food nexus.

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