



An Introductory Global CO₂ Model

By Graham W. Griffiths, William E. Schiesser

World Scientific Publishing Co Pte Ltd. Hardback. Book Condition: new. BRAND NEW, An Introductory Global CO₂ Model, Graham W. Griffiths, William E. Schiesser, The increasing concentration of atmospheric CO₂ is now a problem of global concern. Although the consequences of atmospheric CO₂ are still evolving, there is compelling evidence that the global environmental system is undergoing profound changes as seen in the recent spike of phenomena: extreme heat waves, droughts, wildfires, melting glaciers, and rising sea levels. These global problems directly resulting from elevated atmospheric CO₂, will last for the foreseeable future, and will ultimately affect everyone. The CO₂ problem is generally not well understood quantitatively by a general audience such as, for example, the increasing rate of CO₂ emissions, and the movement of carbon to other parts of Earth's environmental system, particularly the oceans with accompanying acidification. We therefore present an introductory global CO₂ mathematical model that gives some key numbers - for example, atmospheric CO₂ concentration in ppm and ocean pH as a function of time for the calendar years 1850 (preindustrial) to 2100 (a modest projection into the future). The model is based on seven ordinary differential equations (ODEs), and is intended as an introduction to some basic...



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