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# Introduction To Environmental Engineering And Science

**Ram S. Gupta**



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Engineering is intended for a course in introductory environmental engineering for sophomore or junior level students. This text provides a background in fundamental science and engineering principles of environmental engineering for students who may or may not become environmental engineers. Principles places more emphasis on scientific principles, ethics, and safety and focuses less on engineering design. The text exposes students to a broad range of environmental topics including risk management, water quality and treatment, air pollution, hazardous waste, solid waste, and ionizing radiation, as well as discussion of relevant regulations and practices. The book also uses mass and energy balance as a tool for understanding environmental processes and solving environmental engineering problems.

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**Introduction to Sustainable Solution Techniques in Civil and Environmental Engineering Science** Dr. Vanita Aggarwal, Dr. Chadetrik Rout, 2024-09-27. Visualizing the era of urbanization, population growth, climate change, environmental degradation, etc., the demand for sustainable practices in Civil and Environmental Engineering has never been as important as today. The edited book *Introduction to Sustainable Solution Techniques in Civil and Environmental Engineering Science* is planned to give an overview of certain approaches and methods for addressing these serious issues. The book is a collection of selected papers presented at the International Conference on Advances in Civil and Environmental Engineering (ICACEE 2024) held at Civil Engineering Department, M M Engineering College, Mullana, Ambala, Haryana, on 14-15 March 2024. This book is not just an academic resource but also a guide for researchers, engineers, and students who are dedicated to promoting sustainability in their actions. It is the duty of all researchers to follow the responsibility for inventing and implementing solutions that not only fulfil day-to-day requirements but also to protect natural resources and the environment for future generations. Therefore, the integration of the concept of sustainability into

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