



# Fundamentals of Soil Science



A. Rathinasamy  
B. Bakiyathu Saliha

# FUNDAMENTALS OF SOIL SCIENCE

**Dr. A. Rathinasamy**

Professor of Soil Science  
Horticultural College and Research Institute  
Periyakulam

**Dr. B. Bakiyathu Saliha**

Assistant Professor of Soil Science  
Department of Soils and Environment  
Agricultural College and Research Institute  
Madurai

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## PREFACE

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Soil Science is not a new science, but one that has gained much attention and interest in the past decade. Dealing with soil at any age? Believe it or not, soil (to some known as "dirt") is part of all of our lives on a daily basis. As environmental issues such as water quality, waste management, ecological biodiversity, land resource carrying capacity, and alternative land uses continue to gain more attention from the public.

The importance of soil and soil management is being increasingly recognized in our country. Which have a high pressure of population on the available land and find no alternative in meeting the demand for food and other agricultural raw materials except through increase in agricultural production per unit land.

Soil Science is a unique discipline concerning a complex material that is part of many natural and utilitarian systems. As such, the teaching of Soil Science requires principles that reflect the nature of soil and the practices of soil scientists. The goal of this book is to introduce students and teachers the basic principles of soil science as an integral part of the curriculum for soil science, environmental sciences, earth science, and water quality.

The content is structured around basic soil concepts, beginning with the significance of soil in our everyday lives and progressing through soil formation, the physical and chemical properties of soils, and the role, soil and the earth play in environmental management today and in the future. It is necessary to develop better understanding among the students on the relationship between soil and water quality, crop and vegetation management, and environmental science.

In view of the concern of humanity regarding pollution and environment, I felt it is necessary to add a chapter on soil pollution and soil quality. A special chapter on Organic farming is also provided.

One can learn about the soil in their own back yard, who to contact to get local "experts". How to get our students more interested in soil and environmental studies.

There is a great need for the book on Fundamentals of Soil Science which explain the basic principles and concepts and draw upon Indian data so as to

make it useful to Indian students, teachers in agriculture. It is hoped that the book “fundamentals of Soil Science” will meet the need of all students of soil science and other disciplines related to agriculture, horticulture and forestry.

**AUTHORS**

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