

Plant root systems: their function and interaction with the soil.

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Plant root systems : their function and interaction with the soil.

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Book : [Plant root systems : their function and interaction with the soil.](#) 1977 pp.2

Abstract : This book is concerned with the growth and function of the root systems of plants in the soil and is divided into 3 parts : physiological background (5 chapters); response to soil conditions (4 chapters); and tillage of the soil (2 chapters). The first part covers the physiological control of growth throughout the plant, the growth of roots, the absorption and transport of nutrients, water relations and root/rhizosphere interactions.

flora interactions. The 2nd part covers the soil environment, mechanical impedance to root growth, effects of anaerobic soil conditions and the root/soil interface. The book covers traditional and modern methods of tillage and effects of reduced cultivation conditions and crop growth. The book is aimed at 3rd yr undergraduates and research workers.

ADDITIONAL ABSTRACT: The book is written for students and research workers. Its first six chapters are concerned with root/shoot relationships, growth substances, root growth and form, nutrient transport, water relations, and rhizosphere effects). The next four chapters deal with responses to soil conditions (physical and chemical environment, mechanical impedance, anaerobic conditions and the soil/root interface). The two concluding chapters deal with tillage methods and reduced cultivation.

ADDITIONAL ABSTRACT: The topics considered are: physiological relationships between roots and shoot; the growth and form of root systems; the absorption and transport of nutrients; relations of root systems; relationships between roots and the rhizosphere environment; mechanical impedance of root growth; effects of anaerobic soil conditions on the soil/root interface; traditional and modern methods of tillage; reduced cultivation conditions and crop growth.

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