



Soil Root Interface

J. L. Harley



Soil Root Interface:

The Soil-Root Interface J. L. Harley, 2013-10-22 The Soil Root Interface contains the proceedings of an international symposium held in Oxford England on March 28 to 31 1978 The first five chapters of this book contain the majority of papers presented at the meeting as well as the descriptions of displayed posters and films Abstracts of other contributions offered by participants but not read at the meeting form the final chapter The first five parts cover topics on nutrient demand and supply at the soil root interface physics and chemistry of the interfacial region biological activities at the interface the interface in relation to environmental stress and disease and the interface in relation to soil function and growth

The soil-root Interface John Laker Harley, 1981 The Soil-root Interface J. L. Harley, 1979 **The Soil-root Interface** John Laker Harley, R. Scott Russell, 1979 Nutrient demand and supply at the soil root interface Physics and chemistry of the interfacial region Biological activities at the interface The interface in relation to environmental stress and disease The interface in relation to soil function and growth Abstracts of papers not read in full

Unsaturated Soils: Research & Applications Adrian R. Russell, 2020-09-23 This book contains the contributions to the Second European Conference on Unsaturated Soils E UNSAT 2012 held in Napoli Italy in June 2012 and includes more than one hundred papers addressing three thematic areas experimental modelling and engineering

Plant Roots Yoav Waisel, Amram Eshel, Tom Beeckman, Uzi Kafkafi, 2002-03-29 The third edition of a standard resource this book offers a state of the art multi disciplinary presentation of plant roots It examines structure and development assemblage of root systems metabolism and growth stressful environments and interactions at the rhizosphere Reflecting the explosion of advances and emerging technologies in the field the book presents developments in the study of root origin composition formation and behavior for the production of novel pharmaceutical and medicinal compounds agrochemicals dyes flavors and pesticides It details breakthroughs in genetics molecular biology growth substance physiology biotechnology and biomechanics

Agrosphere K R Krishna, 2003-01-05 The book deals with agroecological aspects of nutrients essential to crop production A new concept termed AGROSPHERE has been introduced in the book A brief description about agrosphere its expanse contrasting features and interactions with other ecospheres global nutrient dynamics and food production trends within various agro ecosystems fo

Radioisotopes Nirmal Singh, 2011-10-21 The book Radioisotopes Applications in Physical Sciences is divided into three sections namely Radioisotopes and Some Physical Aspects Radioisotopes in Environment and Radioisotopes in Power System Space Applications Section I contains nine chapters on radioisotopes and production and their various applications in some physical and chemical processes In Section II ten chapters on the applications of radioisotopes in environment have been added The interesting articles related to soil water environmental dosimetry tracer and composition analyzer etc are worth reading Section III has three chapters on the use of radioisotopes in power systems which generate electrical power by converting heat released from the nuclear decay of radioactive isotopes The system has to be flown in space for space exploration and

radioisotopes can be a good alternative for heat to electrical energy conversion The reader will very much benefit from the chapters presented in this section

Encyclopedia of Soil Science Ward Chesworth, 2007-11-22 The Encyclopedia of Soil Science provides a comprehensive alphabetical treatment of basic soil science in a single volume It constitutes a wide ranging and authoritative collection of some 160 academic articles covering the salient aspects of soil physics chemistry biology fertility technology genesis morphology classification and geomorphology With increased usage of soil for world food production building materials and waste repositories demand has grown for a better global understanding of soil and its processes longer articles by leading authorities from around the world are supplemented by some 430 definitions of common terms in soil sciences

The soil-root interface John Laker ed Harley, Proceedings of an int. symp. held in Oxford Eng. March 2, 1981

Progress in Biopolymer Research Pablo C. Sánchez, 2007 This book presents new and important research on biopolymers which are a special class of polymers produced by living organisms Starch proteins and peptides DNA and RNA are all examples of biopolymers in which the monomer units respectively are sugars amino acids and nucleic acids A major but defining difference between polymers and biopolymers can be found in their structures Polymers including biopolymers are made of repetitive units called monomers Biopolymers inherently have a well defined structure The exact chemical composition and the sequence in which these units are arranged is called the primary structure Many biopolymers spontaneously fold into characteristic compact shapes see also protein folding as well as secondary structure and tertiary structure which determine their biological functions and depend in a complicated way on their primary structures Structural biology is the study of the structural properties of the biopolymers In contrast most synthetic polymers have much simpler and more random or statistic structures

Soil Chemistry and Ecosystem Health P. M. Huang, 1998 Ecosystem health an overview Molecular structure reactivity toxicity relationships Metal ion speciation and its significance in ecosystem health Dynamics and transforamtions of radionuclides in soils and ecosystem health Adsorption of dissolved organic ligands onto hydr oxide minerals Organophosphorus ester hydrolysis catalyzed by dissolved metals and metal containing surfaces Impact of chemical and biochemical reactions on transport of environmental pollutants in porous media Soil root interface biological and biochemical processes Soil root interface physicochemical processes Soil root interface ecosystem health and human food chain protection Nontarget ecological effects of plant microbial and chemical introductions to terrestrial systems Ecosystem health and its relationship to the health of the soil subsystem Role of soil chemistry in soil remediation and ecosystem conservation

Crops as Enhancers of Nutrient Use V. C. Baligar, R. R. Duncan, 1990 The ability of plants to utilize nutrients under various environmental constraints is profoundly affected by genetic and physiological factors These essays examine problems related to plant absorption from the perspectives of plant genetics physiology rhizosphere microbiology soil chemistry and agronomy Topics include plant and soil factors that promote efficient utilization of nutrients plant soil interactions and how plants respond to nutrients at the cellular level on a whole plant basis and when subjected to

stress Annotation copyrighted by Book News Inc Portland OR *SIO Reference* , Nitrogen in the Environment Donald R. Nielsen, J. G. MacDonald, 1978 V 1 Nitrogen behavior in the field soil V 2 Soil plant nitrogen relationships *Genetic Manipulation of Crops Plants to Enhance Integrated Nutrient Management in Cropping Systems* C. Johansen, 1995
Nutrient Balances and the Need for Fertilizers in Semi-arid and Arid Regions International Potash Institute. Colloquium, 1983 **Information Report** , 1985 **Transactions** , 1978 Botanica Acta , 1987

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