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Nota di contenuto	Plant Roots Growth, Activity and Interaction with Soils; Contents; Preface; 1. Plants, Roots and the Soil; 1.1 The evolution of roots; 1.2 Functional interdependence of roots and shoots; 1.2.1 Balanced growth of roots and shoots; 1.2.2 Communication between roots and shoots; 1.3 Roots and the soil; 1.3.1 The root-soil interface; 1.3.2 Root-induced soil processes; 2. Roots and the Architecture of Root Systems; 2.1 Nomenclature and types of root; 2.2 Root structure; 2.2.1 Primary structure; 2.2.2 Secondary structure; 2.3 Extension and branching; 2.3.1 Extension; 2.3.2 Branching 2.3.3 Root hairs 2.4 The root tip; 2.4.1 The root cap and border cells; 2.4.2 Mucilage; 2.5 Architecture of root systems; 3. Development and Growth of Root Systems; 3.1 Measurement of root systems; 3.1.1 Washed soil cores; 3.1.2 Rhizotrons and minirhizotrons; 3.1.3 Other techniques; 3.2 Root system development; 3.3 Size and distribution of root systems; 3.3.1 Mass and length; 3.3.2 Depth of rooting; 3.3.3 Distribution of roots; 3.4 Root:shoot allocation of dry matter; 3.5 Root longevity and turnover; 3.6 Modelling of root systems; 4. The Functioning Root System; 4.1 Root anchorage

4.1.1 Uprooting; 4.1.2 Overturning; 4.2 Water uptake; 4.2.1 The concept of water potential; 4.2.2 The soil-plant-atmosphere continuum; 4.2.3 Water uptake by plant root systems; 4.3 Nutrient uptake; 4.3.1 Nutrient requirements of plants and the availability of nutrients; 4.3.2 Nutrient movement in soil solution; 4.3.3 Nutrient uptake and movement across the root; 4.3.4 Nutrient uptake by root systems; 5. Roots and the Physico-Chemical Environment; 5.1 Temperature; 5.1.1 Root development and growth; 5.1.2 Root orientation; 5.1.3 Other root functions; 5.2 Gravity and other tropistic responses
6.1.1 Root-rhizosphere communication; 6.1.2 Interactions with bacteria; 6.1.3 Interactions with fungi; 6.1.4 Interactions with protozoa; 6.1.5 Interactions with nematodes and mesofauna; 6.2 Symbiotic associations; 6.2.1 Rhizobia and N fixation; 6.2.2 Mycorrhizas; 6.3 Root pathogens and parasitic associations; 6.3.1 Fungal diseases; 6.3.2 Nematodes; 6.3.3 Parasitic weeds; 6.4 Root herbivory by insects; 7. The Rhizosphere; 7.1 Rhizodeposition; 7.1.1 Quantities of rhizodeposits; 7.1.2 Composition of rhizodeposits; 7.1.3 Nitrogen rhizodeposits; 7.2 Chemical changes affecting nutrient acquisition
7.2.1 Rhizosphere composition and replenishment

Sommario/riassunto

The root system is a vital part of the plant and therefore understanding roots and their functioning is key to agricultural, plant and soil scientists. In Plant Roots Professor Peter Gregory brings together recent developments in techniques and an improved understanding of plant and soil interactions to present a comprehensive look at this important relationship, covering: Root response to, and modification of, soils
Genetic control of roots' responses to the environment
Use of modern techniques in imaging, molecular biology and analytical chemistry

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Collana	A Reverend Curtis Black Novel
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Nota di contenuto	Cover -- Title Page -- Table of Contents -- Dedication -- Chapter 1 -- Chapter 2 -- Chapter 3 -- Chapter 4 -- Chapter 5 -- Chapter 6 -- Chapter 7 -- Chapter 8 -- Chapter 9 -- Chapter 10 -- Chapter 11 -- Chapter 12 -- Chapter 13 -- Chapter 14 -- Chapter 15 -- Chapter 16 -- Chapter 17 -- Chapter 18 -- Chapter 19 -- Chapter 20 -- Chapter 21 -- Chapter 22 -- Chapter 23 -- Chapter 24 -- Chapter 25 -- Chapter 26 -- Chapter 27 -- Chapter 28 -- Chapter 29 -- Chapter 30 -- Chapter 31 -- Chapter 32 -- Chapter 33 -- Chapter 34 -- Chapter 35 -- Chapter 36 -- Chapter 37 -- Chapter 38 -- Chapter 39 -- Epilogue -- Acknowledgments -- Discover More Kimberla Lawson Roby -- Reading Group Guide -- Praise for "A Sinful Calling -- Also by Kimberla Lawson Roby -- Copyright.
Sommario/riassunto	"Two years ago, to everyone's surprise, Dillon Whitfield Black, the secret son of Reverend Curtis Black, boldly moved back home, married a woman named Raven, decided he was going to become a minister and then founded a church right in the center of his living room. Today he's pastor of an 1000-plus-member congregation, and new members are joining weekly. Sadly, behind closed doors, Dillon is far from being a saint. Dillon has become more like the man his father was thirty years ago consumed with money, power and lots of women. His family may

have forgiven him, but they continue to keep their distance. Not Alicia, though. This daughter of Curtis Black joins Dillon's congregation, leaving her father's church behind. The family has forgiven Alicia for marrying Levi Cunningham, the former drug dealer she had an affair with, but once Alicia realizes they will never fully accept Levi, she decides to see her family less and less. But when Raven decides she wants a higher position in the church and Alicia hides a devastating secret, the entire family is affected in ways they don't see coming. In the end, no one will be able to trust anyone and for very good reason.

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