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Sommario/riassunto	This book focuses on the significance and implications of Calcium (Ca2+) transport machinery in the plant cell in generating alternating Ca2+ levels and impacting the cell’s physiological, biochemical and developmental processes. In the following sections, the concept of Ca2+ homeostasis, Ca2+ signature, various Ca2+ transport protein families and conductance systems would be discussed in detail-elucidation of their functional characterization, structure, mechanism, sub-cellular localization and specific physiological roles in ensuring Ca2+ homeostasis. Also, the aspect of Ca2+ as a “signaling hub” – transducing distinct plant responses to diverse environmental stimuli,

Ca2+ binding proteins, and the tools used in studying these proteins are explained in brief to paint a holistic picture of Ca2+ transport in plant systems. This has resulted in an elaborative literature account to serve as a staple by providing recent insights and advance knowledge surrounding genetic and molecular dissection of Ca2+homeostasis maintenance mechanisms and extant Ca2+ transport systems in plants.