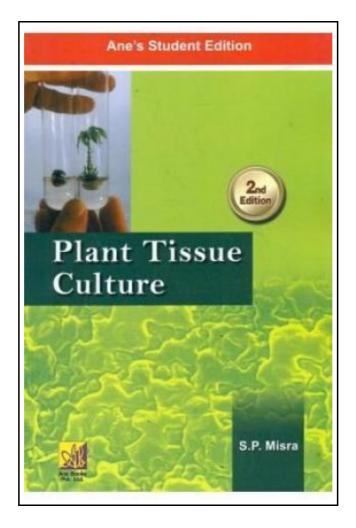
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(Dr. Raven Ledner)

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Ane Books Pvt. Ltd., 2015. Softcover. Book Condition: New. 2nd edition. The book is designed to spotlight basic concepts, methodologies and role of plant tissue culture in unlocking the closely guarded secrets in the vaults of life; unleashing and channelising nature's power of self-renewal; rewriting the story of botanical genesis; rooting out hunger; and making the earth green. The book provides a comprehensive and up-to-date account of various aspects of the subject in a simple and lucid form easily understandable to the students. The book will cater the needs of undergraduate and postgraduate students of Botany, Agriculture and Forestry and will be immensely useful to those studying in B. Tech and M. Tech Programmes in Biotechnology. It will also be of great help to those appearing in various competitive examinations including NET jointly conducted by U.G.C. and C.S.I.R. Salient Features? Spotlights the subject with focus on its practical applications.? Covers major component of Biotechnology course. ? Based on the syllabi of all Indian Universities in general and U.G.C. in particular. ? Lucidly written and lavishly illustrated with self-explanatory diagrams. ? Includes glossary of technical terms and bibliography. Contents History of Plant Tissue Culture? Laboratory Organisation? Establishment of Sterile Cultures? Culture Media, Growth Regulators and Nutrient Supplements? Totipotency, Cytodifferentiation, Organogenesis, Somatic Embryogenesis and Artificial Seeds? Basic Techniques and Types of in vitro Culture? Callus Induction and Cell Culture? Micropropagation (Clonal Propagation)? Somaclonal Variation and Gametoclonal Variation, Zygotic Embryo Culture? Meristem Culture for Disease Free Plants? Haploids: Anther and Pollen Culture ? Plant Protoplasts : Isolation, Culture, Regeneration and Somatic Hybridization? Gene Transfer Methods and Transgenic Plants? Achievements, Applications and Prospects of Plant Tissue Culture? Status of Plant Tissue Culture Technology in India? Bioethics in Plant Tissue...

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