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Narosa Publishing House, 2012. Softcover. Condition: New. 5th or later edition. About the book The second edition has been divided into five parts viz., Mendelian Genetics, Molecular Genetics, Cytogenetics, Plant Breeding and Genomics spanning about 900 pages with 250 diagrams and 150 worked problems. The Genomics part, added to this new edition, deals with experimentation in gene cloning, recombinant DNA technology and Human Genome project. It also includes an exhaustive glossary of Genetics, Plant Breeding and Molecular Genetics; questions, techniques in Cytogenetics like staining, fixation, preparation of permanent slides and a detailed historical development of Genetics from Mendel to recent times. New to the Second Edition: More Human Genetic diseases discussed Detailed Discussion on Drosophila and Caenorhabditis elegans Applied aspects of Biotechnology in Plants Gene cloning and recombinant DNA technology for crop improvement programmes Entire new chapter on Genomics Table of Contents Preface to the Second Edition / Preface to the First Edition / Acknowledgements / Part I: MENDELIAN GENETICS: Mendel`s Laws of Inheritance / Deviations of Mendel`s Laws / Sex Linked Inheritance / Sex Determination / Multiple Alleles / Linkage and Crossing Over / Chromosome Mapping: Genetic Maps or Linkage Maps of Chromosomes / Statistical Genetics / Population Genetics / Extranuclear Inheritance / Human Genetics / Part II: MOLECULAR GENETICS: DNA Structure / DNA Replication / RNA and Protein Synthesis / The Genetic Code and Protein Synthesis / Control of Gene Expression / Microbial Genetics: Viruses and Bacteria / Fine Structure of the Gene and Biochemical Genetics / Mutations / Unstable Genetic Systems, Cancer Genetics and Immunology / Gene Cloning, Recombinant DNA Technology and Biotechnology / Part III: CYTOGENETICS: Cell Cycle Mitosis and Meiosis / Karyotype / Eukaryotic Chromosome Structure / Chromosomal Aberrations / Polyploidy / Part IV: PLANT BREEDING: Principles of Plant Breeding / Methods of Selection /...

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