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Bioprocess Engineering Putting Biotechnology to Work From The Past To The Future: The Legacy Of Lev Lipatov

From The Past To The Future: The Legacy Of Lev Lipatov Dec 19 2022

This book has been designed to honor Lev Nikolaevich Lipatov, as a person and as one of the leading scientists in theoretical high energy physics. The book begins with three articles on Lev as a person, written endearingly by family members, a very close friend and Physics professor, Eugene Levin, and another outstanding scientist, Alfred Mueller. The book further collects 18 articles by several scientists who closely knew and/or collaborated with Lev. With an overarching range over various subfields, the book summarizes parts of Lev's achievements, presents new results which are based upon Lev's work, and paints an outlook on possible future developments. Lev's theoretical work has had an influential impact on phenomenology and experimental high energy physics; befittingly, this collection also includes several articles on these experimental aspects.

Putting Biotechnology to Work Jan 20 2023 The ability of the United States to sustain a dominant global position in biotechnology lies in maintaining its primacy in basic life-science research and developing a strong resource base for bioprocess engineering and bioproduct manufacturing. This book examines the status of bioprocessing and biotechnology in the United States; current bioprocess technology, products, and opportunities; and challenges of the future and what must be done to meet those challenges. It gives recommendations for action to provide suitable incentives to establish a national program in bioprocess-engineering research, development, education, and technology transfer.

Bioprocess Engineering Feb 21 2023 Bioprocess Engineering involves the design and development of equipment and processes for the manufacturing of products such as food, feed, pharmaceuticals, nutraceuticals, chemicals, and polymers and paper from biological materials. It also deals with studying various biotechnological processes. "Bioprocess Kinetics and Systems Engineering" first of its kind contains systematic and comprehensive content on bioprocess kinetics, bioprocess systems, sustainability and reaction engineering. Dr. Shijie Liu reviews the relevant fundamentals of chemical kinetics-including batch and continuous reactors, biochemistry, microbiology, molecular biology, reaction engineering, and bioprocess systems engineering- introducing key principles that enable bioprocess engineers to engage in the analysis, optimization, design and consistent control over biological and chemical transformations. The quantitative treatment of bioprocesses is the central theme of this book, while more advanced techniques and applications are covered with some depth. Many theoretical derivations and simplifications are used to demonstrate how empirical kinetic models are applicable to complicated bioprocess systems. Contains extensive illustrative drawings which make the understanding of the subject easy. Contains worked examples of the various process parameters, their significance and their specific practical use. Provides the theory of bioprocess kinetics from simple concepts to complex metabolic pathways. Incorporates sustainability concepts into the various bioprocesses.

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