Bioprocess Engineering: Systems, Equipment and Facilities

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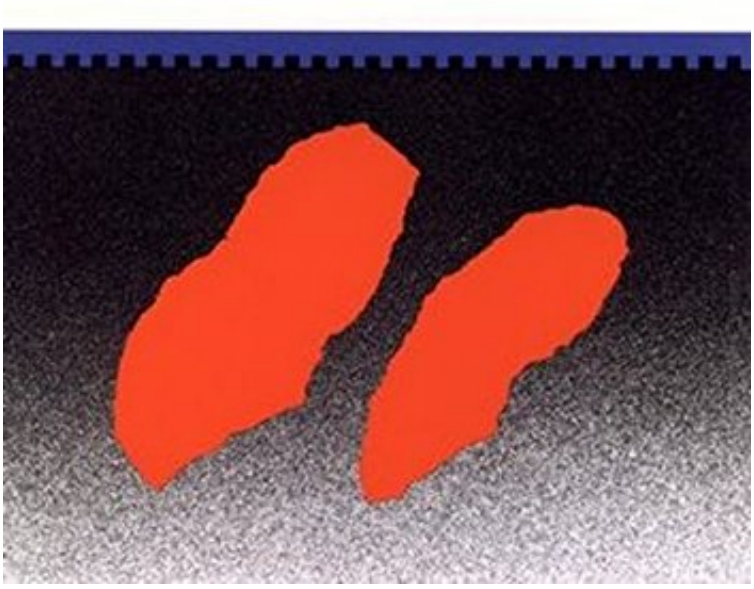

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Ross FellowsAs an operator at a prominent biotechnology firm, I found this book to be beneficial. Whether you are starting from scratch or are using an older system, this is your source of vital information. From filter integrity testing to bioreactor baffling, this book will be your primary reference source.

Divided into four sections, the first and third reflect the fact that there are two types of equipment required in the plant--one in which the actual product is synthesized or processed such as the fermentor, centrifuge and chromatographic columns; and the other that supplies support for the facility or process including air conditioning, water and waste systems. Part two describes such components as pumps, filters and valves not limited to a certain type of equipment. Lastly, it covers planning and designing the entire facility along with requirements for containment and validation of the process.

From the PublisherDivided into four sections, the first and third reflect the fact that there are two types of equipment required in the plant--one in which the actual product is synthesized or processed such as the fermentor, centrifuge and chromatographic columns; and the other that supplies support for the facility or process including air conditioning, water and waste systems. Part two describes such components as pumps, filters and valves not limited to a certain type of equipment. Lastly, it covers planning and designing the entire facility along with requirements for containment and validation of the process.From the Back CoverThe emergence of recombinant DNA and monoclonal antibody technologies has challenged engineers and scientists to develop the methods and facilities required to manufacture, on a commercial scale, the new products derived from biotechnology. This comprehensive handbook offers engineering and science professionals first-hand accounts of practical and prudent solutions to a wide range of production problems from authorities in the field who have successfully met these challenges. Thirty-one distinguished contributors from the major bioprocess engineering firms, and such biotechnology and pharmaceutical industry leaders as Hybritech, Celltech, Merck, and Lilly focus on the... type of equipment required in a bib processing plant - including fermenters, centrifuges, chromatographic columns, synthesizing and processing equipment, and such support equipment as water systems, steam generators, waste systems, air conditioning, and more... system components - such as the pumps, filters, and valves that are ubiquitous in bioprocess facilities and not limited to certain types of equipment... design issues - covering the planning and design of the entire facility and the requirements of the containment and validation of the process. The contributors and editors have relied upon their vast storehouse of professional and research experience in choosing the best way to deal with each bioprocessing problem covered in the book. As a result, they have created the most practical and reliable bioprocessing facility design and operation guide available.