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| ISBN                    | 1-118-83365-1<br>1-119-36917-7  |
| Descrizione fisica      | 1 online resource (397 pages) : illustrations (some color)  |
| Disciplina              | 725/.4  |
| Soggetti                | Factories - Design and construction<br>Pharmaceutical biotechnology industry  |
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| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Nota di bibliografia    | Includes bibliographical references at the end of each chapters and index.  |
| Nota di contenuto       | Introduction to biomanufacturing / Mark F. Witcher -- Product-process-facility relationship / Jeffery Odum -- Regulatory considerations of biomanufacturing facilities / Kip Priesmeyer -- Biopharmaceutical facility design and validation / Jeffery Odum -- Closed systems in bioprocessing / Jeffery Odum -- Aseptic manufacturing considerations for biomanufacturing facility design / Jeffery Odum, Hartmut Schaz, and Larry Pressley -- Facility control of microorganisms : containment and contamination / Jonathan Crane -- |

Process-based laboratory design / Henriette Schubert and Flemming K. Nielsen -- Case study : pharmaceutical pilot plant design and operation / Beth H. Junker -- Addressing sustainability in biomanufacturing facility design / Josh Capparella, Samuel Colucci, Daniel Conner, Robert Dick, and Amanda Weko -- Technology's impact on the biomanufacturing facility of the future / Jeffery Odum and Mark F. Witcher.

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