1. Record Nr. UNINA9910145734403321

Autore	McNeil B
Titolo	Practical fermentation technology / / Brian McNeil & Linda M. Harvey
Pubbl/distr/stampa	Chichester, England ; ; Hoboken, NJ, : Wiley, c2008
ISBN	9786611321895 9781281321893 1281321893 9780470725306 0470725303 9780470725283 0470725281
Descrizione fisica	1 online resource (404 p.)
Altri autori (Persone)	HarveyL. M
Disciplina	660/.28449
Soggetti	Fermentation Chemical enineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Practical Fermentation Technology; Contents; List of Contributors; Acknowledgements; Preface; 1: Fermentation: An Art from the Past, a Skill for the Future; 2: Fermentation Equipment Selection: Laboratory Scale Bioreactor Design Considerations; 3: Equipping a Research Scale Fermentation Laboratory for Production of Membrane Proteins; 4: Modes of Fermenter Operation; 5: The Design and Preparation of Media for Bioprocesses; 6: Preservation of Cultures for Fermentation Processes; 7: Modelling the Kinetics of Biological Activity in Fermentation Systems 8: Scale Up and Scale Down of Fermentation Processes9: On-line, In-situ, Measurements within Fermenters; 10: SCADA Systems for Bioreactors; 11: Using Basic Statistical Analyses in Fermentation; 12: The Fermenter in Research and Development; Index
Sommario/riassunto	A hands-on book which begins by setting the context;- defining 'fermentation' and the possible uses of fermenters, and setting the scope for the book. It then proceeds in a methodical manner to cover

the equipment for research scale fermentation labs, the different types of fermenters available, their uses and modes of operation. Once the lab is equipped, the issues of fermentation media, preservation strains and strain improvement strategies are documented, along with the use of mathematical modelling as a method for prediction and control. Broader questions such as scale-up and scale down, p