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| Autore                  | Ramaswamy Shri <1957->                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Descrizione fisica      | 1 online resource (610 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Altri autori (Persone)  | HuangHua-Jiang<br>RamaraoBandaru V                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Disciplina              | 333.95/39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Nota di bibliografia    | Includes bibliographical references and index.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Nota di contenuto       | pt. I. Introduction -- pt. II. Equilibrium-based separation technologies -- pt. III. Affinity-based separation technologies -- pt. IV. Membrane separation -- pt. V. Solid-liquid separations -- pt. VI. Hybrid/integrated reaction-separation systems-process intensification -- pt. VII. Case studies of separation and purification technologies in biorefineries.                                                                                                                                |
| Sommario/riassunto      | Separation and purification processes play a critical role in biorefineries and their optimal selection, design and operation to maximise product yields and improve overall process efficiency. Separations and purifications are necessary for upstream processes as well as in maximising and improving product recovery in downstream processes. These processes account for a significant fraction of the total capital and operating costs and also are highly energy intensive. Consequently, |

a better understanding of separation and purification processes,  
current and possible alternative and novel advance

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