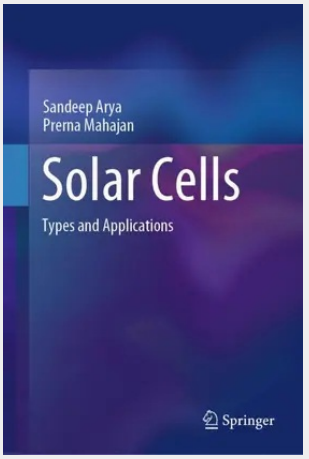
Arya / Mahajan

Solar Cells

Types and Applications



This book highlights developments in the field of solar cells. The chapters in this book address a wide range of topics including the spectrum of light received by solar cell devices, the basic functioning of a solar cell, and the evolution of solar cell technology during the last 50 years. It places particular emphasis on silicon solar cells, CIGS-based solar cells, organic solar cells, perovskite solar cells and hybrid solar cells. The book describes in detail the fabrication processes employed for different categories of solar cells. It also provides the characterization techniques utilized in this sector to evaluate the performance of solar cells and the scope of this domain in the future. Overall, it presents the essential theoretical and practical concepts of solar cells in an easy-to-understand manner.

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