



Smart Polymers: Applications in Biotechnology and Biomedicine, Second Edition

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The first book to tackle the application of smart polymers in bioseparation and bioprocessing, **Smart Polymers: Applications in Biotechnology and Biomedicine** broke new ground in this challenging field. Completely revised, updated, and following in the footsteps of its predecessor, the second edition is poised to take its place as a premier reference in this field. This new edition considers those polymers in which a highly nonlinear response of a smart polymer to small changes in the external medium is of critical importance for the successful functioning of the system. The systems discussed are based on soluble/insoluble transition of smart polymers in aqueous solution, on conformational transitions of the macromolecules physically attached or chemically grafted to a surface and on the shrinking/swelling of covalently cross-linked networks of macromolecules, i.e. smart hydrogels.

The book focuses on the theory describing the behavior of smart polymers in solution, as gels, and when grafted to surfaces. It provides solid, quantitative descriptions and reliable guidelines, reflecting the maturation of the field and the demand for the development of new smart polymer systems. The coverage highlights smart gels and especially fast responding and macroporous gels, as these gels pave the way to different applications of smart polymers in the areas of bioseparation, drug release, and microfluidics. With contributions from leading researchers as well as extensive end-of-chapter references, this volume offers a comprehensive overview of the current state-of-the-art in the field and the potential for future developments.

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