



Layer-by-Layer Films for Biomedical Applications

Catherine Picart, Frank Caruso, Jean-Claude Voegel

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The layer-by-layer (LbL) deposition technique is a versatile approach for preparing nanoscale multicomponent films: the fabrication of multicomponent films by the LbL procedure allows the combination of literally hundreds of different materials with nanometer thickness in a single device to obtain novel or superior performance. In the last 15 years the LbL technique has seen considerable developments and has now reached a point where it is beginning to find applications in bioengineering and biomedical engineering. The book gives a thorough overview of applications of the LbL technique in the context of bioengineering and biomedical engineering where the last years have witnessed tremendous progress. The first part familiarizes the reader with the specifics of cell-film interactions that need to be taken into account for successful application of the LbL method in biological environments. The second part focuses on LbL-derived small drug delivery systems and antibacterial agents, and the third part covers nano- and microcapsules as drug carriers and biosensors. The fourth and last part focuses on larger-scale biomedical applications of the LbL method such as engineered tissues and implant coatings.

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