

Download Smart Hydrogel Modelling

Smart Hydrogel Modelling [Hua Li] on Amazon.com. *FREE* shipping on qualifying offers. The science of mathematical modelling and numerical simulation is generally accepted as the third mode of scientific discovery (with the other two modes being experiment and analysis) To date, a myriad of materials, such as polymers, lipids and inorganic materials, have been developed and served as drug carriers to control the release behavior of payloads [11-16], making the drugs “smart”. The availability of large molecular weight protein- and peptide-based drugs due to the recent advances in the field of molecular biology has given us new ways to treat a number of diseases. Fig. 1. (a) Schematic of a bending unimorph dielectric elastomer actuator (left) and exploded view of the DEA device and different constituent material layers (right) (b) Schematic of depositing hydrogel on the surface of silicone-based layer treated with BP under UV light exposure.