

polymer physics rubinstein pdf

A polymer (/ ɛ̃ p ɛ̃ l ɛ̃ m ɛ̃ t̃ m r /; Greek poly-, "many" + -mer, "part") is a large molecule, or macromolecule, composed of many repeated subunits. Due to their broad range of properties, both synthetic and natural polymers play essential and ubiquitous roles in everyday life. Polymers range from familiar synthetic plastics such as polystyrene to natural biopolymers such as DNA and proteins that ...

Polymer - Wikipedia

Reptation is the thermal motion of very long linear, entangled macromolecules in polymer melts or concentrated polymer solutions. Derived from the word reptile, reptation suggests the movement of entangled polymer chains as being analogous to snakes slithering through one another. Pierre-Gilles de Gennes introduced (and named) the concept of reptation into polymer physics in 1971 to explain ...

Reptation - Wikipedia

In Eq.(2), $\hat{\mu}_1$ is the chemical potential of the solvent in the polymer gel. and $\hat{\mu}_{1,0}$ is the chemical potential of the pure solvent. At equilibrium, the difference between the chemical potentials of the solvent outside and inside the gel must be zero. Therefore, the changes of the chemical potential due to mixing and elastic forces must balance each other.

Hydrogels in pharmaceutical formulations - ScienceDirect

Julie Diani (2016) DIRECTIONAL CONSTITUTIVE LAWS FOR RUBBERS. Rubber Chemistry and Technology: March 2016, Vol. 89, No. 1, pp. 22-31.

DIRECTIONAL CONSTITUTIVE LAWS FOR RUBBERS | Rubber

Abstract. Nanomaterials offer new opportunities for cancer diagnosis and treatment. Multifunctional nanoparticles harboring various functions including targeting, imaging, therapy, and etc have been intensively studied aiming to overcome limitations associated with conventional cancer diagnosis and therapy.

Targeting Strategies for Multifunctional Nanoparticles in

MCC is commonly manufactured by spray drying the neutralized aqueous slurry resulting from the hydrolysis of cellulose. Most commercial grades are formed by varying and controlling the spray drying conditions in order to manipulate the degree of agglomeration (particle size distribution) and moisture content (loss on drying).

Microcrystalline cellulose, a direct compression binder in

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News story from one of the source universities: Balloon filled with ground coffee makes ideal robotic gripper. (Cornell University, October 25, 2010.) The movie here includes some demonstration of how the device works, along with a good explanation.

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