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understanding and modeling polymers the challenge of Dec 13 2021 web polymer materials are multiscale systems by definition already the description of a single macromolecule involves a multitude of scales and cooperative processes in polymer assemblies are governed by their interplay polymers have been among the first materials for which systematic multiscale techniques were developed yet they continue to present

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polymer system an overview sciencedirect topics Oct 23 2022 web polymer systems can be developed into a variety of functional forms to meet industrial and scientific applications in general they are presented in four common physical forms 1 linear free chains in solution 2 covalently or physically cross linked reversible gels 3 micro and nanoparticles and 4 chains adsorbed or in surface

frontiers integration of machine learning and coarse grained Nov 12 2021 web 24 jan 2022 at this level of modeling the polymer system is described as a continuous medium without discrete atoms and molecules the model uses constitutive and conservation laws to capture the macroscopic phenomena in polymeric systems that are typically acquired via experimental measurements

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their practical application is largely impeded due to the safety risks that arise from the uncontrollable li dendrite growth and the high reactivity between high flammability liquid

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