

Adhesion Of Cells, Viruses And Nanoparticles

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Preface.- 0. Background to adhesion of particles, viruses and cells.- Part I BACKGROUND AND FUNDAMENTALS: 1. Introduction to adhesion: all smooth clean surfaces adhere.- 2. Phenomenology of adhesion: From Macro- to Nano-systems.- 3. Modelling nanoparticle, virus and cell adhesion.- Part II MECHANISMS: 4. Macroscopic view of adhesion for particles, viruses and cells.- 5. Statistics of adhesion at the nanoscale.- 6. Subdivision and separation of contact spots.- 7. Measurement methods.- Part III DETAILED RESEARCH: 8. Adhesion of nano-particles.- 9. Adhesion of viruses.- 9. Adhesion of cells.- 10. Adhesion of nanoparticles to cells; toxicity effects.- 11. The future of particle, virus and cell adhesion.
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