

Bio-inspired Studies on Adhesion of a Thin Film on a Rigid Substrate (Springer Theses)



The thesis systematically investigates the factors which influence many animals robust adhesion abilities and micro-reversible adhesion mechanisms, including the geometric principles of their adhesion, relative humidity, surface roughness and pre-tension. Studies exploring biological adhesion mechanisms are not only of great significance for the design of advanced adhesive materials and adhesion systems for micro-climbing robots, but also very helpful for resolving the problem of adhesion failure in MEMS/NEMS.

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