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Equilibrium of particle distribution on surfaces due to touch

Pengcheng Zhao, Yuguo Li, Tak-Lun Tsang, Pak-To Chan

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1 Equilibrium of particle distribution on surfaces due to touch

Pengcheng Zhao^a, Yuguo Li^{a,*}, Tak-Lun Tsang^a, Pak-To Chan^a 3 ^a Department of Mechanical Engineering, The University of Hong Kong, Pokfulam Road, Hong 4 5 Kong SAR, China * Author in correspondence: liyg@hku.hk 6 7 8 9 **Highlights** 1. An innovative touch machine is developed for studying particle contact transfer; 10 2. Four surface materials and fingers were tested with precise control of touch force and duration; 11

- 12 3. Particle transfer between the contacted surfaces reached equilibrium experimentally;
- 4. An equilibrium existed when the distribution was transitive;
- 14 5. An equilibrium can be reached even when some surface pairs never made direct contact.

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