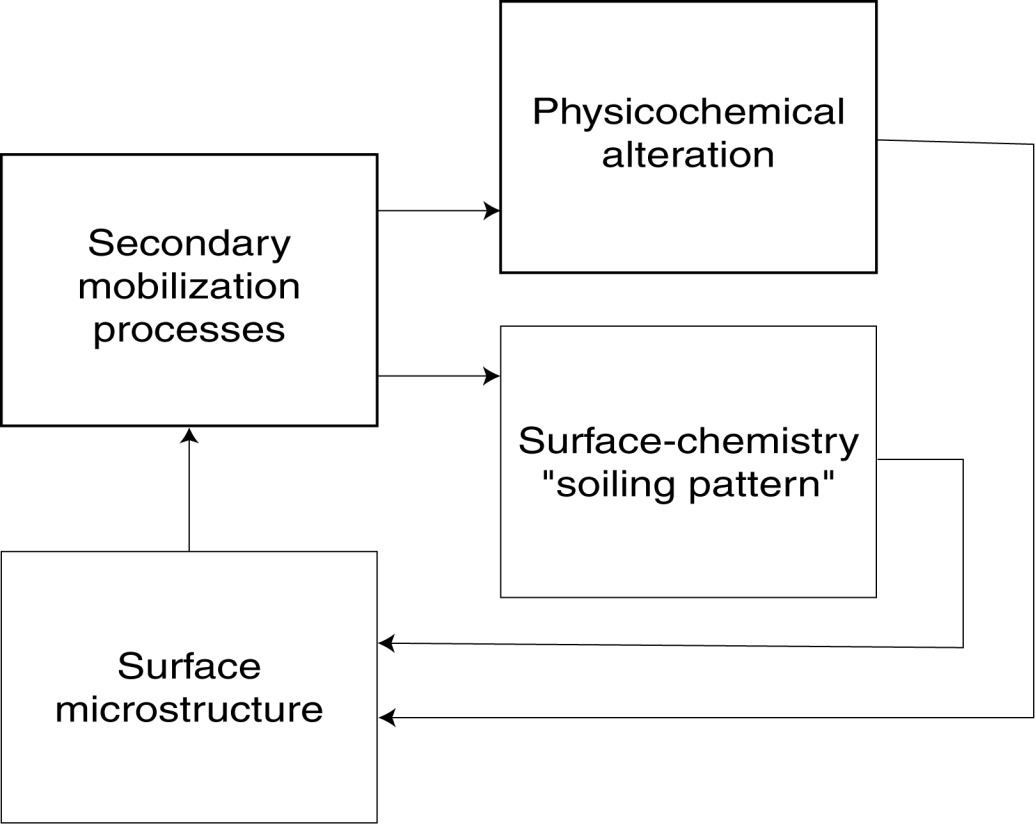
Physicochemical alteration
Secondary mobilization processes
Surface-chemistry "soiling pattern"
Surface microstructure