## Frank Smith Fluid - body interactions, impacts and skimming

Dynamic fluid - body interactions near a wall are considered, where the motion of a thin solid body and the motion of the surrounding fluid affect each other substantially. Analytical work is accompanied by reduced computation. The successive aspects studied here are interactions, impacts, skimming and sinking or bouncing of the body. Impact times are addressed, along with lift-off criteria, the borders between impact and fly-away, the principal parameters and their ranges and the influences from body shape and mass. Air - water body interplay is also included.