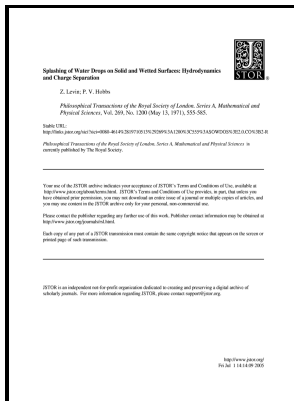


# Charge separation due to splashing of supercooled droplets on ice surfaces.

- - Ice formation on a smooth or rough cold surface due to the impact of a supercooled water droplet



Description: -

Physics thesesCharge separation due to splashing of supercooled droplets on ice surfaces.

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Notes: Thesis (M.Sc), Dept. of Physics, University of Toronto

This edition was published in -



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Tags: #Charge #separation #during #the #fragmentation #of #rime #and #frost

## Splashing of Water Drops on Solid and Wetted Surfaces: Hydrodynamics and Charge Separation on JSTOR

This is explained by the disruption of the electrical double layer. Howison SD, Ockendon JR, Oliver JM 2002 Deep- and shallow-water slamming at small and zero deadrise angles.

## Numerical Simulation of Supercooled Large Droplet Icing Phenomenon: A Review

Al-Khalil K, Irani E, Miller D 2003 Mixed phase icing simulation and testing at the cox icing wind tunnel. The method is general enough to be applicable to other systems of more complicated geometry.

## A two

In: FAA int conf on aircraft inflight icing. Evans JD, King JR 2000 Asymptotic results for the Stefan problem with kinetic undercooling. In: 52nd aerospace sciences meeting.

## NSF Award Search: Award # 1916380

Stanton DW, Rutland CJ 1996 Modeling fuel film formation and wall interaction in diesel engines. Riley JT 1998 Mixed-phase icing conditions: a review. Pasandideh-Fard M, Qiao YM, Chandra S, Mostaghimi J 1996 Capillary effects during droplet impact on a solid surface.

## Charge separation during the impact of sand on ice and its relevance to theories of thunderstorm electrification

Korobkin AA 1997 Asymptotic theory of liquid—solid impact.

## Charge transfer in convective thunderclouds induced by molecular interface crossing and free energy reduction

Baars WJ, Stearman RO, Tinney CE 2010 A review on the impact of icing on aircraft stability and control.

**NSF Award Search: Award # 1916380**

Oxford monographs on meteorology, vol 594, 2nd edn. Roisman IV, Berberovic E, Tropea C 2009 Inertia dominated drop collisions. Grains of sand rebounding off an ice surface remove a net negative charge leaving the ice electrically positive.

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