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Bibliography on Snow and Ice Friction

Samuel C. Colbeck

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Abstract

This is a bibliography compiled for use by anyone interested in friction on snow or ice surfaces. The items are separated into snow and ice categories because the physical processes and the problems on these two surfaces are somewhat different. There is some repetition between the lists because some references are appropriate for both subjects. The references were selected because they were of direct interest to the subject of friction and not just because knowledge of friction was important in the study. That is, the references selected provide information about friction and do not just use such information.

For conversion of SI metric units to U.S./British customary units of measurement consult ASTM Standard E380, *Standard Practice for Use of the International System of Units (SI)*, published by the American Society for Testing and Materials, 1916 Race St., Philadelphia, Pa. 19103.

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**US Army Corps
of Engineers**

Cold Regions Research &
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PREFACE

This report was prepared by Dr. Samuel C. Colbeck, Geophysicist with the Snow and Ice Branch, Research Division, U.S. Army Cold Regions Research and Engineering Laboratory (CRREL). It was funded by DA Project 4A762784AT42, *Design, Construction, and Operations Technology for Cold Regions*; Task FS, *Fire Support*, Work Unit 003, *Radiational Effects on Snow Signatures*.

The contents of this bibliography were taken from the *Bibliography on Cold Regions Science and Technology* and the Arctic Science and Technology Information System.

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Bibliography on Snow and Ice Friction

SAMUEL C. COLBECK

These lists were compiled for use by anyone interested in friction on snow or ice surfaces. They are separated into two categories because the physical processes and the problems are somewhat different on these two surfaces. For example, skiers can use the snow list without having to go through a larger, combined list. There is some repetition between the lists because some references are appropriate for both subjects.

In selecting these references I eliminated many that were not of direct interest to the subject of friction although knowledge of friction was important in the study. That is, I tried to select references that provided information about friction and not just references that used such information. I did not examine all of the references directly but sometimes used key words and the title as a guide. I made no judgment about the value of the reference but tried to include all references that could provide information about friction.

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