COLD REGIONS SCIENCE AND TECHNOLOGY

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DESCRIPTION

Cold Regions Science and Technology is an international journal dealing with the science and technical problems of cold environments in both the polar regions and more temperate locations. It includes fundamental aspects of cryospheric sciences which have applications for cold regions problems as well as engineering topics which relate to the cryosphere.

Emphasis is given to applied science with broad coverage of the physical and mechanical aspects of ice (including glaciers and sea ice), snow and snow avalanches, ice-water systems, ice-bonded soils and permafrost.

Relevant aspects of Earth science, materials science, offshore and river ice engineering are also of primary interest. These include icing of ships and structures as well as trafficability in cold environments. Technological advances for cold regions in research, development, and engineering practice are relevant to the journal. Theoretical papers must include a detailed discussion of the potential application of the theory to address cold regions problems. The journal serves a wide range of specialists, providing a medium for interdisciplinary communication and a convenient source of reference.

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INTRODUCTION

Cold Regions Science and Technology is an international journal dealing with the scientific and technical problems of cold environments in both the Arctic and more temperate locations. The primary focus is with problems related to the freezing of water, and especially with the many forms of floating ice, snow, and frozen ground. The journal serves a wide range of specialists, providing a medium for interdisciplinary communication and a convenient source of reference.

Emphasis is given to applied science with broad coverage of the physics, chemistry, mechanics, and biological aspects of ice, snow, ice-water systems, and ice-bonded soils. Relevant aspects of earth science, materials science, offshore and river ice engineering are also of primary interest. Technological advances for cold regions areas in research, development, and engineering practice are relevant to the journal. This includes traditional major specializations of engineering (civil, mechanical, electrical), together with other engineering subdivisions (e.g. hydraulics, biotechnology, agricultural, mining, highway, sanitary, petroleum, ocean, rivers). Coverage may also include engineering geology, architecture, meteorology, hydrology, forestry, exploration geophysics, naval architecture, and so forth. Theoretical papers must include a detailed discussion of the potential application of the theory to address cold regions problems.

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