



Frozen Ground Engineering

By Orlando B. Andersland, Branko Ladanyi, ASCE

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This new edition of Frozen Ground Engineering gives a peerless presentation of soil mechanics for frozen ground conditions and a variety of frozen ground support systems used on construction projects worldwide.

An authoritative update of the industry standard, this Second Edition covers the essential theory, applications, and design methods using frozen ground in the construction of deep shafts, tunnels, deep excavations, and subsurface containment barriers. New material features design models for pavement structures used in seasonal frost and permafrost areas, new information on the movement of fluid phase contaminants in frozen ground, and helpful appendices offering guidance on common frozen ground tests and SI unit conversions.

This new edition gives the essential information engineers, geologists, and students need in a complete reference, including up-to-date information on:

- * Sensitivity of frozen ground to climate change
- * Experimental work on frozen soil creep and strength
- * Monitoring creep in frozen slopes
- * Frost protection of foundations using ground insulation
- * Highway insulation
- * Load restrictions for seasonal frost areas

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Editorial Review

Review

“...well illustrated...the second edition of this book will be welcomed by those directly concerned with engineering expertise for cold regions...” (*Polar Record*, Vol. 41, 2005)

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From the Back Cover

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About the Author

ORLANDO B. ANDERSLAND, PHD, is Professor Emeritus in the Department of Civil and Environmental Engineering at Michigan State University and a recipient of the Distinguished Faculty Award. He is senior author of the first edition of this book and numerous papers in technical journals, as well as senior editor of *Geotechnical Engineering for Cold Regions*.

BRANKO LADANYI, PHD, is Professor Emeritus in the Department of Civil, Geological, and Mining Engineering at the University of Montreal, École Polytechnique. He's coauthor of the first edition of this book and numerous papers dealing with various geotechnical subjects. He is a Fellow of the Academy of Sciences, Royal Society of Canada, and has earned numerous awards and honors for his achievements in geotechnical engineering.

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Barbara Butler:

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