

The following relevant material for the C21 webpages has been collected by Engineering Geology students of Prof. Scott Burns at Portland State University (USA) in the framework of a students assignment. This material has not yet been screened and commented nor approved by the C21 chair and membership.

Textbooks

1. L.N.Khrustalyov (2005) **The basic of geotechnics in cryolitozone**. Moscow, MSU Publishing, 544 p.p.
2. Muller, S. W., 2008, **Frozen in Time: Permafrost and Engineering Problems**, American Society of Civil Engineers.
This textbook scientifically describes permafrost and details the engineering problems that come with building in permafrost environments. Discussion includes methods for stabilizing structures built in permafrost. The book reviews prior literature on permafrost and engineering in permafrost environments.
3. Zufelt, J. E., and Lincoln, N. I. C. o. C. R. e., 1999, **Cold Regions Engineering: Putting Research into Practice**: Proceedings of the Tenth International Conference August 16-19, 1999 Lincoln, New Hampshire, American Society of Civil Engineers.
This book is a compilation describing research presented at the Tenth International Cold Regions Engineering Conference. The focus of the conference was new methods for the application of permafrost engineering to building problems. Research includes an international perspective on a variety of subtopics within permafrost engineering.
4. Williams, P. J., 1988, **Pipelines and Permafrost: Science in a Cold Climate**, Oxford University Press, USA, 144 p.
This book describes engineering problems in permafrost regions. The construction and stability of pipelines in permafrost regions is discussed, with emphasis on the importance of engineering such infrastructure thoughtfully. Political issues and the regulation of engineering in permafrost areas are discussed.
5. Prakash, S., and Sharma, H. D., 1990, **Pile Foundations in Engineering Practice**, Wiley-Interscience, 768 p.
This text discusses the engineering of pile foundations. A how-to on installing such foundations in permafrost regions is included.
6. Clarke, E. S., 2007, **Permafrost Foundations: State of the Practice**, American Society of Civil Engineers, 86 p.n
This text describes modern practices used to build foundations in permafrost regions. Both design and remediation techniques are discussed.

7. French, H., 2007, **The Periglacial Environment**, John Wiley and Sons: 478p.
The goal of this text is to describe the permafrost environment. Geomorphology and landforms are discussed. Problems associated with human development in the permafrost environment are discussed.

8. Andersland, B. and Ladanyi, Branko. **Frozen Ground Engineering**. 2nd ed. John Wiley and Sons, p.384.
Covering soil mechanics in the permafrost environment, this book focuses on specific methods used in constructing in the permafrost environment.