

# Soil thermal resistivity

Thermal resistivity depends mainly on soil composition (i.e. mineral, organics), texture (i.e. particle size grading), water content, and dry density. This complex interrelationship does not lend itself to a simple formula; testing must be carried out on any given soil to determine its resistivity.

**You want high water content and high soil density (see next slide).**

**Air has a high thermal resistivity and therefore does not dissipate heat very well.**

**Water dissipates heat better.**

**Soil with lowest thermal resistivity has maximum amount of soil grains & water.**

Description	Thermal Resistivity Dry ( $^{\circ}\text{C}\cdot\text{cm}/\text{W}$ )
<b>Soil Grains</b>	
Quartz	12
Granite	30
Limestone	40
Sandstone	50
Shale (sound)	60
Shale (highly friable)	200
Mica	170
<b>Others</b>	
Ice	45
Water	165
Organics	~500
Oil (petroleum)	~800
Air	~4500

Source: Presentation slides of Geotherm Inc., "Importance of Soil Thermal Characteristic for Underground Power Cables," March 23, 2010, Spring 2010 ICC Meeting, Nashville, TN

Soil Material	( $\rho$ )( $^{\circ}\text{C}\cdot\text{cm}/\text{W}$ )
Quartz Grains	11
Granite Grains	26
Limestone Grains	45
Sandstone Grains	58
Mica Grains	170
Water	165
Organic	400 Wet — 700 Dry
Air	4000

Source: IEEE Standard 442-1981, "IEEE Guide for Soil Thermal Resistivity Measurements," 1996.

# Guide For Soil Thermal Resistivity Measurements

**Ayman El-Hag**



## **Guide For Soil Thermal Resistivity Measurements:**

**442-1981 IEEE Guide for Soil Thermal Resistivity Measurements** , IEEE Std 442-1981 , *IEEE Std 442-2017 (Revision of IEEE Std 442-1981)* ,2018 IEEE Guide for Soil Thermal Resistivity Measurements ,1981 **IEEE Std 442-1981** ,1981 **Laboratory Tests for Unsaturated Soils** Eng-Choon Leong,Martin Wijaya,2023-02-16 The testing of unsaturated soils requires greater care and effort than that of saturated soils Although unsaturated soil mechanics has been embraced by geotechnical engineering engineering practice has not yet caught up as the characterization of unsaturated soils is difficult and time consuming and made harder still by a lack of standards **Laboratory Tests for Unsaturated Soils** collates test procedures to cover all laboratory tests for characterising unsaturated soils It covers the background theory test procedures and interpretation of test results Each test procedure is broken down into simple stages and described in detail The pitfalls of each test and the interpretation of the test results are explained Test data and calculation methods are given along with many numerical examples to illustrate the methods of interpretation and to offer the presentation of typical results The book is especially useful for students and researchers who are new to the field and provides a practical handbook for engineering applications Underground Cable Thermal Backfill S.A. Boggs,F.Y. Chu,H.S. Radhakrishna,2013-10-22 **Underground Cable Thermal Backfill** documents the proceedings of the Symposium on Underground Cable Thermal Backfill held in Toronto Canada 17 18 September 1981 The symposium brought together research design and installation engineers from utilities cable manufacturers and universities to present and discuss developments in the field The contributions of researchers at the symposium are organized into five chapters Chapter 1 presents an overview of the state of the art of cable backfill materials and soil thermal property measurements The papers in Chapter 2 deal with developments in cable backfill materials These include materials stabilized with moisture substitutes pumpable materials and materials stabilized with bound water Chapter 3 covers thermal property measurements of soils and backfills Through the automation of measurements and analysis using microprocessor based instruments and better control of experimental conditions substantial improvements have been made in the area of measurement technology Chapter 4 reports developments in the study of soil thermal stability and the implication thereof for thermal cable design Chapter 5 discusses various aspects of thermal cable design including methods for incorporating historical weather records to predict worst case soil and backfill thermal conductivities This volume should serve as a useful introduction to the subject of cable thermal design for engineers involved in underground transmission and distribution systems **IEEE Standards** Institute of Electrical and Electronics Engineers,1992 Qpedia Thermal Management - Electronics Cooling Book, Volume 3 Advanced Thermal Solutions,Kaveh Azar,Bahman Tavassoli,2009 The complete editorial contents of Qpedia Thermal eMagazine Volume 3 Issues 1 12 features in depth technical articles covering the most critical areas of electronics cooling Testing and Characterisation of Earth-based Building Materials and Elements Antonin Fabbri,Jean-Claude Morel,Jean-Emmanuel Aubert,Quoc-Bao

Bui,Domenico Gallipoli,B.V. Venkatarama Reddy,2021-11-26 This book presents the work done by the RILEM Technical Committee 274 TCE It focuses on the estimation of the parameters which are necessary to properly design earthen constructions It provides a compilation of the value classically obtained for the key parameters of earthen materials a pedagogical presentation of the main testing procedures for earthen materials their advantage and their drawback and an overview of most standards on earthen materials whatever their origin and their language The book is divided into eight chapters After a general introduction on earthen materials and constructions the state of the art on the material characterisation technics the assessment of hygrothermal performance the mechanical behaviour seismic resistance and the durability will be presented each in a dedicated chapter On the basis of these last chapters a critical review of the standards which are used for earthen material will be presented in the last chapter The last chapter is dedicated to the analysis of the environmental potential of earth based building materials

**Power Grid Resiliency for Adverse Conditions** Nicholas Abi-Samra,2017-09-30 Written by a leading expert in the field this practical book offers a comprehensive understanding of the impact of extreme weather and the possible effects of climate change on the power grid The impact and restoration of floods winter storms wind storms and hurricanes as well as the effects of heat waves and dry spells on thermal power plants is explained in detail This book explores proven practices for successful restoration of the power grid increased system resiliency and ride through after extreme weather and provides readers with examples from super storm Sandy This book presents the effects of lack of ground moisture on transmission line performance and gives an overview of line insulation coordination stress strength analysis and tower insulation strength and then provides readers with tangible solutions Structural hardening of power systems against storms including wind pressure wood poles and vegetation management is covered Moreover this book provides suggestions for practical implementations to improve future smart grid resiliency

**1996 National Electrical Code Handbook** IEEE,Mark W. Earley,John M. Caloggero,Joseph V. Sheehan,1996 The National Electrical Code Handbook explains code requirements especially changes to the code from the last edition The handbook contains the complete text of the 1996 NEC along with explanatory comments

**Geotechnical Engineering Challenges to Meet Current and Emerging Needs of Society** Nuno Guerra,Manuel Matos Fernandes,Cristiana Ferreira,António Gomes Correia,Alexandre Pinto,Pedro Sêco Pinto,2024-09-17 Geotechnical Engineering Challenges to Meet Current and Emerging Needs of Society includes the papers presented at the XVIII European Conference on Soil Mechanics and Geotechnical Engineering Lisbon Portugal August 26 to 30th 2024 The papers aim to contribute to a better understanding of problems and solutions of geotechnical nature as well as to a more adequate management of natural resources Case studies are included to better disseminate the success and failure of Geotechnical Engineering practice The peer reviewed articles of these proceedings address the six main topics New developments on structural design Geohazards Risk analysis and safety evaluation Current and new construction methods Environment water and energy Future city world

vision With contributions from academic researchers and industry practitioners from Europe and abroad this collection of conference articles features an interesting and wide ranging combination of innovation emerging technologies and case histories and will be of interest to academics and professionals in Soil Mechanics and Geotechnical Engineering

*Electrical Power Cable Engineering* William A. Thue, 2003-06-20 Electrical Power Cable Engineering Second Edition remains the foremost reference on low and medium voltage electrical power cables cataloging technical characteristics and assuring success for cable manufacture installation operation and maintenance While segments on electrical cable insulation and field assessment have been revamped to reflect industry transformations new chapters tackle distinctive topics like the location of underground system faults and the thermal resistivity of concrete proving that this expanded edition lays a sound foundation for engineering decisions It deconstructs the external variables affecting conductor insulation and shielding design

**From Fundamentals to Applications in Geotechnics** D. Manzanal, A.O. Sfriso, 2015-12-11 The work of geotechnical engineers contributes to the creation of safe economic and pleasant spaces to live work and relax all over the world Advances are constantly being made and the expertise of the profession becomes ever more important with the increased pressure on space and resources This book presents the proceedings of the 15th Pan American Conference on Soil Mechanics and Geotechnical Engineering XV PCSMGE held in Buenos Aires Argentina in November 2015 This conference held every four years is an important opportunity for international experts researchers academics professionals and geo engineering companies to meet and exchange ideas and research findings in the areas of soil mechanics rock mechanics and their applications in civil mining and environmental engineering The articles are divided into nine sections transportation geotechnics in situ testing geo engineering for energy and sustainability numerical modeling in geotechnics foundations and ground improvement unsaturated soil behavior embankments dams and tailings excavations and tunnels and geo risks and cover a wide spectrum of issues from fundamentals to applications in geotechnics This book will undoubtedly represent an essential reference for academics researchers and practitioners in the field of soil mechanics and geotechnical engineering In this proceedings approximately 65% of the contributions are in English and 35% of the contributions are in Spanish or Portuguese

Foundation Engineering Handbook Hsai-Yang Fang, 2013-06-29 More than ten years have passed since the first edition was published During that period there have been a substantial number of changes in geotechnical engineering especially in the applications of foundation engineering As the world population increases more land is needed and many soil deposits previously deemed unsuitable for residential housing or other construction projects are now being used Such areas include problematic soil regions mining subsidence areas and sanitary landfills To overcome the problems associated with these natural or man made soil deposits new and improved methods of analysis design and implementation are needed in foundation construction As society develops and living standards rise tall buildings transportation facilities and industrial complexes are increasingly being built Because of the heavy design loads and the complicated environments the traditional

design concepts construction materials methods and equipment also need improvement Further recent energy and material shortages have caused additional burdens on the engineering profession and brought about the need to seek alternative or cost saving methods for foundation design and construction *Thermal Conductivity*,1988 *High Voltage Engineering and Applications* Ayman El-Hag,2020-04-09 This book is a collection of recent publications from researchers all over the globe in the broad area of high voltage engineering The presented research papers cover both experimental and simulation studies with a focus on topics related to insulation monitoring using state of the art sensors and advanced machine learning algorithms Special attention was given in the Special Issue to partial discharge monitoring as one of the most important techniques in insulation condition assessment Moreover this Special Issue contains several articles which focus on different modeling techniques that help researchers to better evaluate the condition of insulation systems Different power system assets are addressed in this book including transformers outdoor insulators underground cables and gas insulated substations

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**Sustainable Technology and Advanced Computing in Electrical Engineering** Vasundhara Mahajan,Anandita Chowdhury,Narayana Prasad Padhy,Fernando Lezama,2022-11-02 The book includes peer reviewed papers of the International Conference on Sustainable Technology and Advanced Computing in Electrical Engineering ICSTACE 2021 The main focus of the book is electrical engineering The conference aims to provide a global platform to the researchers for sharing and showcasing their discoveries findings innovations The book focuses on the areas related to sustainable development and includes research works from academicians and industry experts The book discusses new challenges and provides solutions at the interface of technology information complex systems and future research directions

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