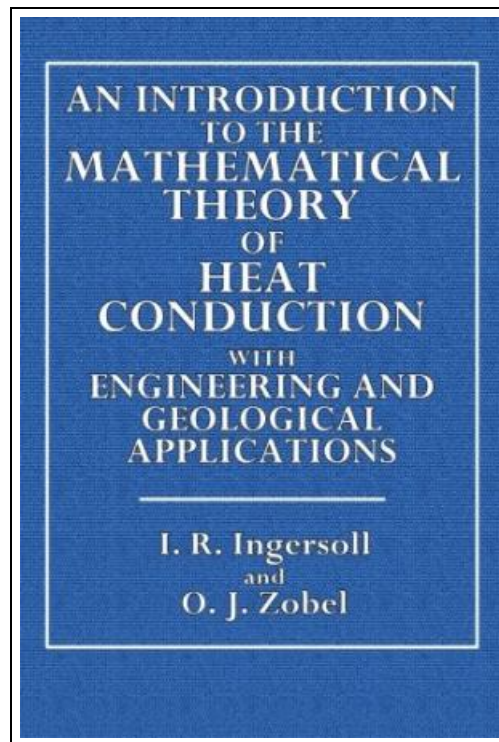


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Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Although primarily intended for students of physics, this textbook contains, as its subtitle would suggest, a certain amount of material that has an important bearing on geological problems, especially those that have to do with the transfer of heat. In chap, vii, on The Linear Flow of Heat, some of the sections bearing on geology are: thawing of frozen soil, cooling of lava under water, cooling of the earth with and without radioactive considerations, and estimates of age, heat sources, temperatures in decomposing granite. Chap, viii, The Flow of Heat in More than One Dimension, treats the cooling of a laccolith and the cooling of a sphere by radiation. The conclusions on the nature and rate of progress of a heat wave traveling from a laccolith into limestone throw interesting light on the conditions of the contact metamorphism of limestone and the development of ores at such points. The slow advance of the heat wave, allowing as it does a difference of temperature of about 500 C. at points 200 meters on either side of the contact, at the end of 10,000 years, must be a very important factor controlling the work of underground waters. Again, this same process demands, first the development of a compressional condition in the limestone, followed later by a period of tensional stresses as the rock cools. Accordingly, the compressional phase advances like a wave normal into the limestone, followed by a tensional phase which tends to produce fissures. This accords with the facts observable at limestone contacts. Chap, ix deals with the conditions of the formation of ice. The handling of the problems in each case is highly mathematical as the title...



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