The Analytical Theory of Heat (Classic Reprint) (Paperback)

By Joseph Fourier

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Analytical Theory of Heat Statement of the Object of the Work: Object of the theoretical researches; Different examples, ring, cube, sphere, infinite prism; the variable temperature at any point whatever is a function of the coordinates and of the time. The quantity of heat, which during unit of time crosses a given surface in the interior of the solid, is also a function of the time elapsed, and of quantities which determine the form and position of the surface. The object of the theory is to discover these functions; The three specific elements which must be observed, are the capacity, the conductibility proper or permeability, and the external conductibility or penetrability. The coefficients which express them may be regarded at first as constant numbers, independent of the temperatures; First statement of the problem of terrestrial temperatures; Conditions necessary to applications of the theory. Object of the experiments; The rays of heat which escape from the same point of a surface have not the same intensity. The intensity of each ray is proportional About the...

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