



## Eight Lectures on Theoretical Physics; Delivered at Columbia University in 1909 Volume 6 (Paperback)

By Dr Max Planck

Theclassics.Us, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1915 edition. Excerpt: .place of the three velocities  $W_1$ ,  $p_2$ ,  $p_3$ , as the determining coordinates of the state. These are defined in the following way: wherein  $H$  denotes the kinetic potential (Helmholz). Then, in Hamiltonian form, the equations of motion are:  $\frac{d}{dt}x = \frac{\partial H}{\partial p_x}$  ( $E$  is the energy), and from these equations follows the condition of incompressibility  $\frac{d}{dt} \int \dots = 0$  Referring to the six-dimensional space represented by the coordinates  $p_1, (2, p_2, \dots, p_6, T, p_7, p_8$ , this equation states that the magnitude of an arbitrarily chosen state domain, viz.:  $\int \dots$  does not change with the time, when each point of the domain changes its position in accordance with the laws of motion of material points. Accordingly, it is made possible to take the magnitude of this domain as a direct measure for the probability that the state...



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