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The principal problem is the determination of the condition of the system with respect to configuration and velocities at any required time when its condition in these respects has been given for some one time and the fundamental equations are those which express the changes continually taking place in the system Inquiries of this kind are often simplified by taking into consideration conditions of the system other than those through which it actually passes or is supposed to pass but our attention is not usually carried beyond conditions differing infinitesimally from those which are regarded as actual For some purposes however it is desirable to take a broader view of the subject We may imagine a great number of systems of the same nature but differing in the configurations and velocities which they have at a given instant and differing not merely infinitesimally but it may be so as to embrace every conceivable combination of configuration and velocities And here we may set the problem not to follow a particular system through its succession of configurations but to determine how the whole number of systems will be distributed among the various conceivable configurations and velocities at any required time when the distribution has been given for some one time The fundamental equation for this inquiry is that which gives the rate of change of the number of systems which fall within any infinitesimal limits of configuration and velocity About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www forgottenbooks com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

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