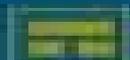


The Theory of Heat Radiation

MAX PLANCK

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The Theory of Heat Radiation Max Planck, 1914

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The Theory of Heat Radiation Max Planck, 1989-03-01 Translated by Morton Masius

The Theory of Heat Radiation Max Planck, 2013-09 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 1914 edition Excerpt CHAPTER II RADIATION AT THERMODYNAMIC EQUILIBRIUM KIRCHHOFF'S LAW BLACK RADIATION 24 We shall now apply the laws enunciated in the last chapter to the special case of thermodynamic equilibrium and hence we begin our consideration by stating a certain consequence of the second principle of thermodynamics A system of bodies of arbitrary nature shape and position which is at rest and is surrounded by a rigid cover impermeable to heat will no matter what its initial state may be pass in the course of time into a permanent state in which the temperature of all bodies of the system is the same This is the state of thermodynamic equilibrium in which the entropy of the system has the maximum value compatible with the total energy of the system as fixed by the initial conditions This state being reached no further increase in entropy is possible In certain cases it may happen that under the given conditions the entropy can assume not only one but several maxima of which one is the absolute one the others having only a relative significance 1 In these cases every state corresponding to a maximum value of the entropy represents a state of thermodynamic equilibrium of the system But only one of them the one corresponding to the absolute maximum of entropy represents the absolutely stable equilibrium All the others are in a certain sense unstable inasmuch as a suitable however small disturbance may produce in the system a permanent change in the equilibrium in the direction of the absolutely stable equilibrium An example of this is offered by

supersaturated steam enclosed in a rigid vessel or by any explosive substance We shall also meet such unstable equilibria in the case of radiation phenomena Sec 52 1 See **The Theory of Heat Radiation** Max Planck, 2013-04-10 Recent advances in physical research have on the whole been favorable to the special theory outlined in this book in particular to the hypothesis of an elementary quantity of action My radiation formula especially has so far stood all tests satisfactorily including even the refined systematic measurements which have been carried out Probably the most direct support for the fundamental idea of the hypothesis of quanta is supplied by the values of the elementary quanta of matter and electricity derived from it I made my first calculation of the value of the elementary electric charge and found it to be 4 69 Meanwhile the experimental methods improved in an admirable way by the labors of Perrin and Millikan and others decided in favor of the value deduced from the theory of radiation which lies between the values of Perrin and Millikan To the two mutually independent confirmations mentioned there has been added as a further strong support of the hypothesis of quanta which seems to point unmistakably to the fact that not only the processes of radiation but also the molecular processes take place in accordance with certain elementary quanta of a definite finite magnitude For the hypothesis of quanta as well as the heat theorem may be reduced to the simple proposition that the thermodynamic probability of a physical state is a definite integral number or what amounts to the same thing that the entropy of a state has a quite definite positive value which as a minimum becomes zero while in contrast therewith the entropy may according to the classical thermodynamics decrease without limit to minus infinity For the present I would consider this proposition as the very quintessence of the hypothesis of quanta The main fault of the original treatment was that it began with the classical electro-dynamical laws of emission and absorption whereas later on it became evident that in order to meet the demand of experimental measurements the assumption of finite energy elements must be introduced an assumption which is in direct contradiction to the fundamental ideas of classical electro-dynamics It is true that this inconsistency is greatly reduced by the fact that in reality only mean values of energy are taken from classical electro-dynamics while for the statistical calculation the real values are used nevertheless the treatment must on the whole have left the reader with the unsatisfactory feeling that it was not clearly to be seen which of the assumptions made in the beginning could and which could not be retained In contrast thereto I have now attempted to treat the subject from the very outset in such a way that none of the laws stated need later on be restricted or modified This presents the advantage that the theory so far as it is treated here shows no contradiction in itself though certainly I do not mean that it does not seem to call for improvements in many respects as regards both its internal structure and its external form To treat of the numerous applications many of them very important which the hypothesis of quanta has already found in other parts of physics I have not regarded as part of my task still less to discuss all differing opinions For anyone who would make his attitude concerning the hypothesis of quanta depend on whether the significance of the quantum of action for the elementary physical processes is made clear in every respect or may be demonstrated by some simple

dynamical model misunderstands I believe the character and the meaning of the hypothesis of quanta It is impossible to express a really new principle in terms of a model following old laws And as regards the final formulation of the hypothesis we should not forget that from the classical point of view the physics of the atom really has always remained a very obscure inaccessible region into which the introduction of the elementary quantum of action promises to throw some light

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THEORY OF HEAT RADIATION MAX. PLANCK,2018 *The Theory of Heat Radiation (Classic Reprint)* Max Planck,2017-09-17 Excerpt from The Theory of Heat Radiation In this book the main contents of the lectures which I gave at the University of Berlin during the winter semester 1906 07 are presented My original intention was merely to put together in a connected account the results of my own investigations begun ten years ago on the theory of heat radiation it soon be came evident however that it was desirable to include also the foundation of this theory in the treatment starting with Kirch hoff s Law on emitting and absorbing power and so I attempted to write a treatise which should also be capable of serving as an introduction to the study of the entire theory of radiant heat on a consistent thermodynamic basis Accordingly the treatment starts from the simple known experimental laws of optics and advances by gradual extension and by the addition of the results of electrodynamics and thermodynamics to the problems of the spectral distribution of energy and of irreversibility In doing this I have deviated frequently from the customary methods of treatment wherever the matter presented or considerations regarding the form of presentation seemed to call for it especially in deriving Kirchhoff s laws in calculating Maxwell s radiation pressure in deriving Wien s displacement law and in generalizing it for radiations of any spectral distribution of energy whatever I have at the proper place introduced the results of my own investigations into the treatment A list of these has been added at the end of the book to facilitate comparison and examination as regards special details About the Publisher Forgotten Books publishes hundreds of thousands of rare and

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The Theory of Heat Radiation David Eugene Smith,1959 *The Theory of Heat Radiation* Max Planck,James Zimmerhoff,2017-06-19 Max Karl Ernst Ludwig Planck a German theoretical physicist whose discovery of energy quanta won him the Nobel Prize in Physics Planck made numerous contributions to theoretical physics but his fame as a scientist rests primarily on his position as the originator of quantum theory which revolutionized human understanding of atomic and subatomic processes Nevertheless his name is also known on a broader academic basis through the renaming of the German scientific organization the Kaiser Wilhelm Society of which he was twice president to the Max Planck Society MPS that now includes 83 institutions representing a broad range of scientific disciplines

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