

# THE HALL EFFECT IN METALS AND ALLOYS

Colin M. Hurd

# The Hall Effect In Metals And Alloys

**Santosh Kumar Dutta Roy**



## **The Hall Effect In Metals And Alloys:**

The Hall Effect in Metals and Alloys Colin Hurd, 2012-12-06 I hope this book will be useful to at least two groups of individuals the nonspecialist reader with a general knowledge of solid state science and seeking an introduction to the theory and practice of the Hall effect in metals and the specialist seeking a contemporary review of the relevant literature The literature has been surveyed thoroughly up to the middle of 1970 while the more accessible journals have been followed to late 1970 I have been selective in cases where there is a great volume of literature particularly in the case of old or obscure measurements of low accuracy but in all cases I have tried to present the reader with sufficient information to judge whether a particular reference matches his interest and is therefore worth tracing I compiled the book from reading the original publications but inevitably there will be errors arising in transcription or inadvertent omissions I hope the reader finding these will be charitable enough to write to me It is a pleasure to acknowledge the numerous useful discussions I have had at various times with associates and colleagues particularly Drs Mme M T Beal Monod J E A Alderson R D Barnard T Farrell and P Monod Their influence appears at various points in the text although of course they must not be held responsible for anything I have written

**The Hall Effect in Metals and Alloys** Colin Hurd, 1972-02-01      **Hall Effect in Metals and Alloys** E. J. Evans, 1933      **The Hall Effect and Its Applications** C. Chien, 2013-11-11 In 1879 while a graduate student under Henry Rowland at the Physics Department of The Johns Hopkins University Edwin Herbert Hall discovered what is now universally known as the Hall effect A symposium was held at The Johns Hopkins University on November 13 1979 to commemorate the 100th anniversary of the discovery Over 170 participants attended the symposium which included eleven invited lectures and three speeches during the luncheon During the past one hundred years we have witnessed ever expanding activities in the field of the Hall effect The Hall effect is now an indispensable tool in the studies of many branches of condensed matter physics especially in metals semiconductors and magnetic solids Various components over 200 million that utilize the Hall effect have been successfully incorporated into such devices as keyboards automobile ignitions gaussmeters and satellites This volume attempts to capture the important aspects of the Hall effect and its applications It includes the papers presented at the symposium and eleven other invited papers Detailed coverage of the Hall effect in amorphous and crystalline metals and alloys in magnetic materials in liquid metals and in semiconductors is provided Applications of the Hall effect in space technology and in studies of the aurora enrich the discussions of the Hall effect's utility in sensors and switches The design and packaging of Hall elements in integrated circuit forms are illustrated

**Publications of the Teaching Staff**, 1909      *Electrical Properties of Solids* T. F. Connolly, 2012-12-06 Since 1963 the Research Materials Information Center has been answering inquiries on the availability preparation and properties of ultrapure inorganic research specimens It has been possible to do this with reasonable efficiency by searching an automated coded microfilm collection of the report and open literature and of data sheets and questionnaires provided by commercial and research

producers of pure materials With the growth of the collection to over 70 000 documents and the increase in the demand for more general background information it has been necessary to compile bibliographies on an increasing variety of subjects These have been used as indexes to the microfilmed documents for more efficient searching and in the past distributed in response to individual requests However their size and number no longer permit so casual and uneconomic a method of distribution The ORNL Solid State Physics Literature Guides is a practical alternative Organization The subject organization of the bibliography is given by the Table of Contents Each section is preceded by a collection of reviews bibliographies and general papers i e those dealing with methods or equipment rather than single materials or with such a wide variety of materials that no subsection was appropriate Coverage is generally from 1960 to mid 1970 Emphasis is on inorganic materials

*Physical Review* ,1916 Vols for 1903 include Proceedings of the American Physical Society Hall Effect and Magnetoresistance in Metals and Alloys Santosh Kumar Dutta Roy,1961 *The Physical Review* ,1921 Vols for 1903 include Proceedings of the American Physical Society Physics in the Making A. Sarlemijn,M.J. Sparnaay,2013-10-22 H B G

Casimir s life interests and works are intertwined with the important developments that have taken place in physics during this century This book was compiled by his friends and admirers in honour of his 80th birthday and concentrates mainly on Casimir s achievements in the field of physics though without ignoring the peripheral areas of the history and philosophy of physics in which he was greatly interested The book is divided into four parts Part I describes Casimir s teachers Ehrenfest Bohr and Pauli and will be of general interest due to the key role which these physicists played in modern developments The articles do give new facts and provide new insights into the history of modern physics Part II consists of essays on recent developments in various areas of physics in which Casimir has taken an active interest such as the modern concept of time statistical foundations of electrodynamic theory and field theory The subjects covered in Part III have been selected because of Casimir s efforts in the industrial research area of physics They cover past present and future expectations in research Part IV contains an essay which discusses a philosophy of physics currently under discussion which states that phenomenological laws prevail over fundamental ones for the purpose of experimental and technical physics A second chapter in this final part gives a critical analysis of this philosophical view The book is concluded by an appendix discussing Casimir s activities as a lecturer written by a former student

*Energy Research Abstracts* ,1993 *Communications from the Kamerlingh Onnes Laboratory of the University of Leiden* Leiden (Netherlands). Rijksuniversiteit. Kamerlingh Onnes Laboratorium,Rijksuniversiteit te Leiden. Kamerlingh Onnes Laboratorium,1913 The articles are reprints or translations from scientific periodicals

**International Catalogue of Scientific Literature** ,1901-1914 ,1914 **The Technical Review** ,1920 Summaries of the UDAEC Basic Research Programs in Metallurgy, Solid State Physics and Ceramics ,1964 Science Abstracts ,1913 International Catalogue of Scientific Literature ,1914 *Chemical Abstracts* ,1924 **The Engineering Index** ,1929 *Monthly Bulletin of the Association Internationale Du Froid* International Association of

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