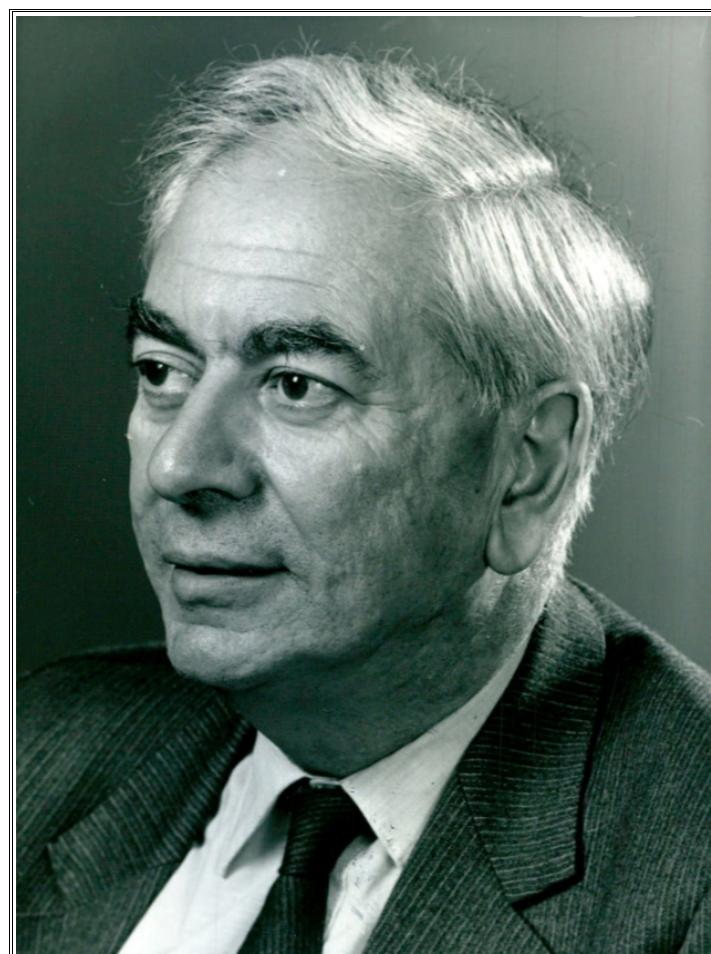


Physics



Books from the Library of D. W. Sciama



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Dennis William Sciama (1926-99) studied at Trinity College, Cambridge, before becoming one of the few research students formally supervised by Paul Dirac. He was however drawn to the cosmological steady-state theories of Bondi, Gold and Hoyle, and his resulting PhD thesis gained him a fellowship at Trinity College, subsequently holding research positions in Princeton, Harvard, and at King's College, London.

During this time he became involved in the revival of the study of general relativity, interest in which had declined in previous decades due to the development of quantum mechanics and atomic physics. When he became a lecturer in applied mathematics at Cambridge, he attracted exceptional research students, among them George Ellis, Stephen Hawking, and Martin Rees.

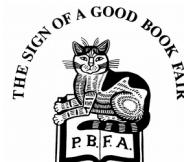
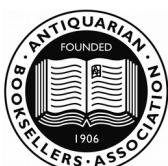
As observational evidence emerged during the 1960s, Sciama moved away from the steady-state theory, adopting the big bang approach instead. His interest in cosmology grew, and resulted in his publications *The Physical Foundations of General Relativity* and *Modern Cosmology*. During his later years he took up positions in Italy, which allowed him to work well beyond the age of retirement in the UK.

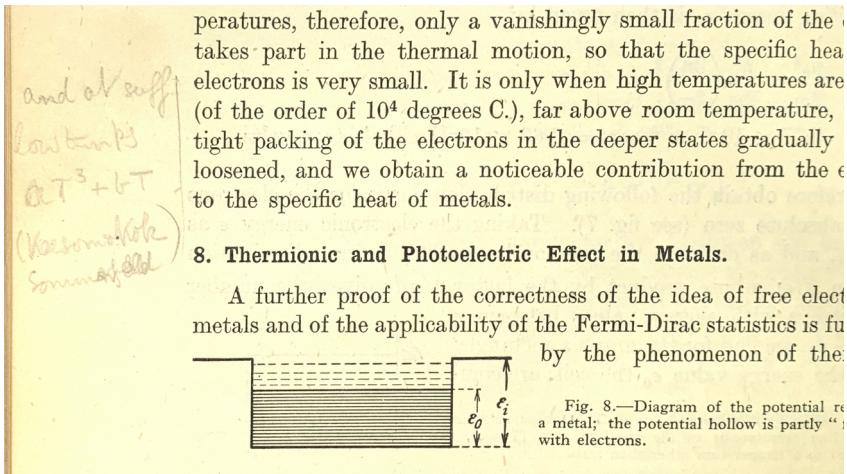
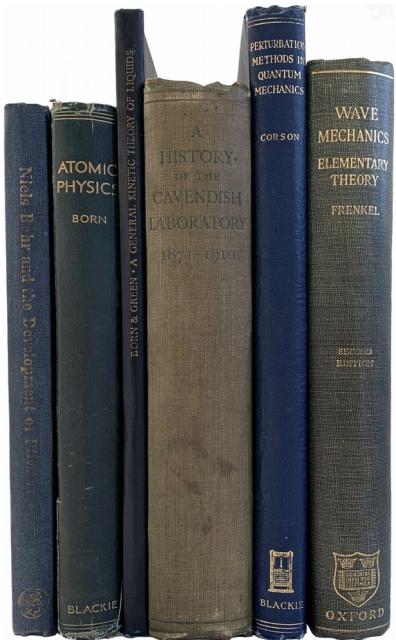
The books offered here formed part of his working library. Most bear his ownership inscription, some annotations in his hand.

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Item 2

1 [Bohr, Niels.] W. Pauli ed. Niels Bohr and the Development of Physics. Essays dedicated to Niels Bohr on the occasion of his seventieth birthday. *London: Pergamon Press, 1955.* £25

First edition. 8vo. pp. vii, 195; port. frontis., diags. to text; very good in original cloth, gilt, slight faded on spine. Ownership inscription of D. W. Sciama, 1957.

A collection of essays by C. G. Darwin, Heisenberg, Pauli, Wheeler, and others.

2 Born, Max. Atomic Physics. *London & Glasgow: Blackie & Sons, [1944].* £75

Third edition. 8vo. pp. xii, 370; 8 plates, diags. to text; good in original cloth, gilt, worn to extremis. Ownership inscription of D. W. Sciama, 1945, with a dozen or so pencilled marginal annotations by him.

First published in German in 1933, and translated into English in 1935, Born's book appeared again in 1937, and in this third edition of 1944, expanded by "enlarging existing sections" (Preface).

3 Born, M. & H. S. Green. A General Kinetic Theory of Liquids. *Cambridge: University Press, 1949.* £35

First edition. 8vo. pp. [vii], 98; very good in original cloth, gilt. Ownership inscription of D. W. Sciama, 1949.

A collection of six articles, one "dealing with the kinetic foundations of thermodynamics in general" (Preface).

4 [Cavendish Laboratory.] A History of the Cavendish Laboratory 1871-1910. *London: Longmans, Green, & Co., 1916.* £35

First edition. 8vo. pp. xi, 342, [2, ads.]; 3 collotype plates, 7 other plates; embrowning to endpapers, else good in original cloth, lettered in black to spine, cloth unevenly faded or darkened. Ownership inscription of D. W. Sciama, 1946.

A history of the world-famous Cambridge laboratory, with contributions by Arthur Schuster, J. J. Thomson, E. Rutherford, C. T. R. Wilson, and others.

5 Corson, E. M. Perturbation methods in the Quantum Mechanics of n-Electron Systems. *London & Glasgow: Blackie & Sons, [1951].* £20

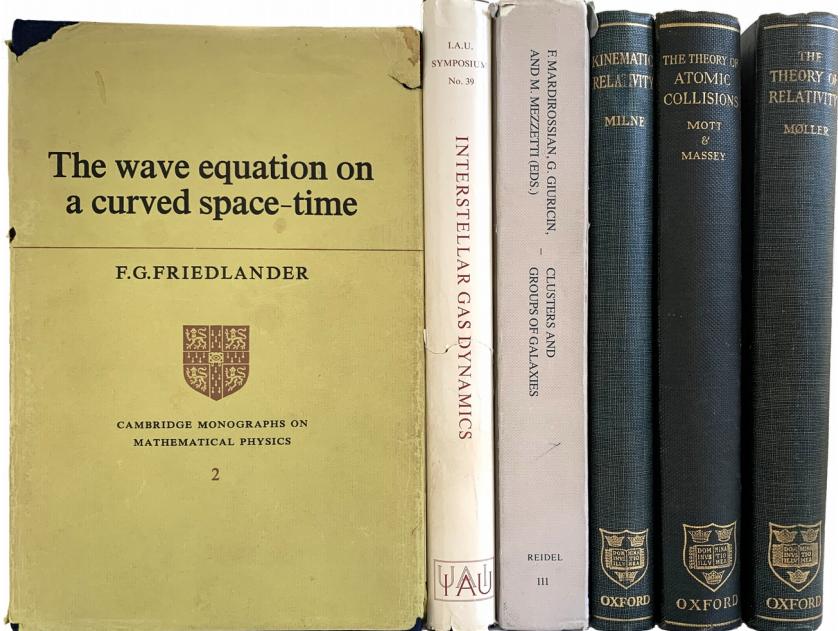
First edition. 8vo. pp. [xi], 308; very good in original cloth, gilt, slightly bumped. Ownership inscription of D. W. Sciama, 1952.

Edward Michael Corson worked with Max Born in Edinburgh (Born provides the book's Foreword), and his monograph draws on the work of Paul Dirac.

6 Frenkel, J. Wave Mechanics Elementary Theory. *Oxford University Press, 1936.* £25

Second edition. 8vo. pp. x, 312; diags. to text; very good in original cloth, gilt, slightly bumped. Ownership inscription of D. W. Sciama, 1945, with a few pencilled annotations by him.

The Soviet physicist Yakov Frenkel took up the study of quantum mechanics after meeting Paul Ehrenfest at a conference in Leningrad, having previously worked on electrodynamics, statistical mechanics and relativity. This second edition of his text book corrects errors and miscalculations in the 1934 first edition, and adds a chapter on "the elementary theory of chemical forces" (Preface).



D.W. Sciama. 1952.

7 Friedlander, F. G. The Wave Equation on a Curved Space-Time. *Cambridge University Press*, [1975]. £15

First edition. 8vo. pp. xii, 282; very good in original cloth, in original d.-w., which is frayed with loss. Ownership inscription of D. W. Sciama.

A monograph on the local effects of space-time curvature on wave propagation.

8 Habing, H. J., ed. Interstellar Gas Dynamics. *Dordrecht: D. Reidel*, 1970. £20

First edition. 8vo. pp. xxiii, 388; group port. frontis.; very good in original cloth, in original d.-w., which is torn across spine. Ownership inscription of D. W. Sciama.

Proceedings of the sixth symposium on cosmical gas dynamics organised by the International Astronomical Union and the International Union of Theoretical and Applied Mechanics.

9 Mardirossian, F. et al., eds. Clusters and Groups of Galaxies. International Meeting held in Trieste, Italy, September 13-16. 1983. *Dordrecht: D. Reidel*, [1984]. £15

First edition. 8vo. pp. xxii, 659, [3]; illusts. and diagrs.; good in original cloth, worn to extremis. Ownership inscription of D. W. Sciama.

Sciama was one of those attending the conference.

10 Milne, E. A. Kinematic Relativity. A Sequel to Relativity, Gravitation and World Structure. *Oxford at the Clarendon Press*, 1946. £30

First edition. 8vo. pp. vii, 238; very good in original cloth, gilt. Ownership inscription of D. W. Sciama, 1949.

Edward Arthur Milne developed an alternative to the general theory of relativity based on kinematics, laid out in his monograph Relativity, Gravitation and World Structure (1935). The present work offers a worked out basis for his approaches, incorporating developments subsequent to the appearance of his first book.

11 Mott, N. F. & H. S. W. Massey. The Theory of Atomic Collisions. *Oxford: Clarendon Press*, 1933. £30

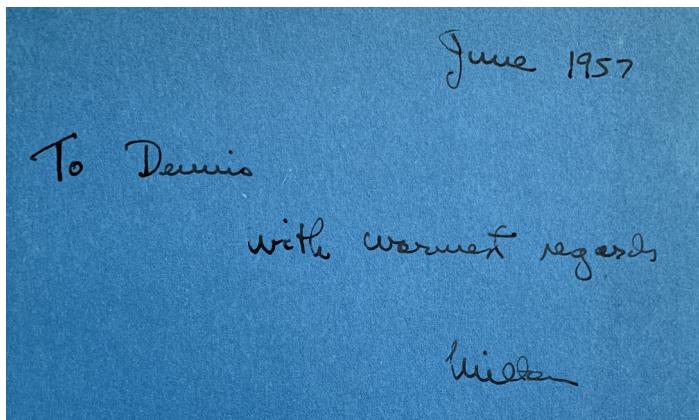
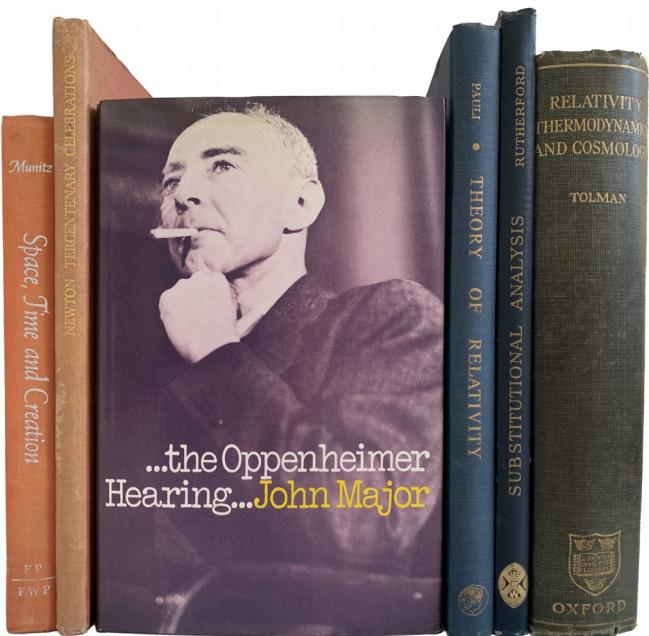
First edition. 8vo. pp. xi, 238; very good in original cloth, gilt. Ownership inscription of D. W. Sciama, 1945.

Mott and Massey's textbook became the standard reference on the subject.

12 Møller, C. The Theory of Relativity. *Oxford at the Clarendon Press*, 1952. £25

First edition. 8vo. pp. xii, 386; very good in original cloth, gilt. Ownership inscription of D. W. Sciama, 1952.

Christian Møller outlined the theory of relativity not by means of the then standard four-dimensional formulation used for some time, but by stressing the "fundamental physical difference between space and time" (Preface).



Item 13

13 Munitz, Milton K. Space, Time and Creation. Philosophical Aspects of Scientific Cosmology. *Glencoe, Illinois: The Free Press*, [1957]. £35

First edition. 8vo. pp. x, 182; very good in original two-tone cloth, gilt. A presentation copy, inscribed to flyleaf "June 1957 To Dennis with warmest regards Milton".

14 [Newton, Sir Isaac.] The Royal Society. Newton Tercentenary Celebrations 15-19 July 1946. *Cambridge at the University Press*, 1947. £20

First edition. 8vo. pp. xv, 92; 6 plates; very good in original cloth, gilt, unevenly faded. Ownership inscription of D. W. Sciama, 1948.

Lectures and addresses on the occasion of Newton's tercentenary, celebrated in London at the Royal Institution, with contributions by E. N. da C. Andrade, Niels Bohr, and Lord Keynes (read by Geoffrey Keynes).

15 [Oppenheimer, Robert.] John Major. The Oppenheimer Hearing. *London: Batsford*, [1971]. £15

First edition. 8vo. pp. [viii], 336; illusts.; very good in original cloth, in d.-w. Ownership inscription of D. W. Sciama.

An examination of President Eisenhower's suspension in 1953 of Oppenheimer as senior advisor on nuclear policy.

16 Pauli, W. Theory of Relativity ... Translated from the German by G. Field with Supplementary Notes by the Author. *Pergamon Press*, 1958. £25

First edition. 8vo. pp. xiv, 241; very good in original cloth. Initialled DSW to flyleaf.

Pauli's book first appeared as the article 'Relativitätstheorie' in *Encyklopädie der mathematischen Wissenschaften* (Vol. V19, Teubner Leipzig, 1921). In the wake of the 50th anniversary of Einstein's first papers on relativity, and after his death in 1955, Pauli translated the work to serve as a historical document, adding by way of the 26pp. Supplementary Notes "selected information about the later developments connected with relativity theory and also my personal views upon some controversial questions" (Preface).

17 Rutherford, Daniel Edwin. Substitutional Analysis. *Edinburgh at the University Press*, 1948. £25

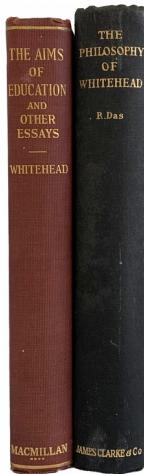
First edition. 8vo. pp. xi, 103; very good in original cloth, gilt. Ownership inscription of D. W. Sciama, 1951.

"The purpose of this book is to give an account of the methods employed by Alfred Young in his reduction of the symmetric group and to describe the more important results achieved by him", relating to Theory of Invariants (Preface).

18 Tolman, Richard C. Relativity Thermodynamics and Cosmology. *Oxford: Clarendon Press*, 1934. £125

First edition. 8vo. pp. xv, 502; a little shaken in original cloth, gilt, slight wear to extremis. Ownership inscription of D. W. Sciama, 1945, with a few pencilled annotations in his hand.

Richard Chace Tolman worked on statistical mechanics, before in the 1930s pursuing his interest in relativity theory. His research into the application of thermodynamics to relativistic systems and cosmology appeared as the present monograph. His demonstration that black body radiation in an expanding universe leads to cooling was an important factor in determining the properties of the cosmic microwave background discovered by Penzias and Wilson in 1964.



D.W. Sciama. 1945.

19 **Whitehead, A. N.** *The Aims of Education & Other Essays*. New York: *The Macmillan Company*, 1929. £25

First edition. 8vo. pp. vii, 247; very good in original cloth, gilt. Ownership inscription of D. W. Sciama, 1945.

A collection of Whitehead's addresses, the last of which is titled 'Space, Time, and Relativity'.

20 **[Whitehead, A. N.] Rasvhary Das.** *The Philosophy of Whitehead*. London: *James Clarke & Co., Ltd.*, n.d. c. 1937. £50

First edition. 8vo. pp. 200; very good in original cloth, gilt, slightly marked. Ownership inscription of D. W. Sciama, 1945.

An overview of Whitehead's philosophy of organism, by a professor in the Indian Institute of Philosophy, Amalner.