



# Uhlenbeck (George E.) papers

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## Summary Information

<b>Repository:</b>	Rockefeller Archive Center
<b>Creator - aut:</b>	Uhlenbeck, George Eugène, 1900-1988
<b>Creator - ctb:</b>	Goudsmit, Samuel Abraham, 1902-
<b>Creator - ctb:</b>	Pais, Abraham
<b>Creator:</b>	American Physical Society
<b>Title:</b>	George E. Uhlenbeck papers, Rockefeller University Faculty
<b>ID:</b>	FA125
<b>Date [inclusive]:</b>	1925-1988
<b>Physical Description:</b>	11.44 Cubic Feet
<b>Language of the Material:</b>	English

### Preferred Citation

Information regarding the Rockefeller Archive Center's preferred elements and forms of citation can be found at <http://www.rockarch.org/research/citations.php>

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## Biographical/Historical note

George Uhlenbeck was born in Batavia, Dutch East Indies' (today Jakarta, Indonesia) in 1900 and died on October 31, 1988 in Boulder, Colorado. He received his Ph. D. degree in 1927 from the State University of Leyden in the Netherlands. While pursuing his graduate studies, he collaborated with Samuel A. Goudsmit in the discovery of the electron spin phenomenon. This concept of an electron's characteristic spin angular momentum about a specific axis has proved to be a cornerstone of basic atomic theory. Uhlenbeck's later research was primarily concerned with the statistical and kinetic theory of the equilibrium and non-equilibrium phenomena of physical systems.

Dr. Uhlenbeck joined the University of Michigan faculty in 1927 and was named professor of theoretical physics in 1939 and Henry Cahart University Professor of Physics in 1954. He served as professor of theoretical physics at the University of Leiden from 1935 to 1939. During World War II, he worked at the Radiation Laboratory at the Massachusetts Institute of Technology. In 1961 he joined the faculty of

Rockefeller University where he helped to establish the University's distinguished theoretical physics faculty. He retired from Rockefeller University in 1974 but continued his interest in physics, serving as both mentor to younger physicists and as an appraiser for articles submitted to scientific journals.

Among Dr. Uhlenbeck's many honors were the Max Planck Medal of the German Physical Society (1964), the National Medal of Science (1977) and the co-recipient of the Wolf Prize (1979). He received honorary degrees from Rockefeller University (1976), Notre Dame University (1953), Case Institute (1960), the University of Colorado (1968) and Yeshiva University (1969). He was elected a member of the National Academy of Sciences in 1955. He was also a member of the American Philosophical Society, the American Academy of Arts and Sciences, the American Association for the Advancement of Science and the American Physical Society, serving as president from 1959-1960.

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## Arrangement note

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Arranged in chronological and alphabetical order.

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## File Plan note

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Former Classification: I 450 U600

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## Administrative Information

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### Publication Statement

Rockefeller Archive Center

15 Dayton Avenue

Sleepy Hollow 10591

[archive@rockarch.org](mailto:archive@rockarch.org)

URL: <http://www.rockarch.org>

## Revision Description

Paper finding aid converted to EAD/XML by AureXus in 2010. Imported into the Archvists' Toolkit by Becky Robbins. 6 August 2010

## Conditions Governing Access note

This collection is open for research.

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## Controlled Access Headings

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- Statistical mechanics
- General relativity (Physics)
- Physics
- Uhlenbeck, George Eugène, 1900-1988
- Goudsmit, Samuel Abraham, 1902-
- Pais, Abraham
- American Institute of Physics
- Strauss, Lewis L.
- American Physical Society
- Rockefeller University

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## Physical Characteristics and Technical Requirements

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Materials requiring specialized equipment for access (film, audio, video, slides) may be closed to research dependent on availability of the applicable equipment

Brittle or damaged items, or materials otherwise in need of preservation care, may be closed to researchers at the discretion of the RAC Head of Archival Services/Head of Reference.

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## Collection Inventory

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<b>Biographical Material, 1961-1989, undated</b>	box 1
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Physical Description: 0.4 Cubic Feet

### Scope and Contents note

Subjects include curriculum vitae, honors received, bibliographical lists or articles, books, reviews, lectures and speeches, obituaries, American Physical Society memorial services and archival copies of photographs.

### Arrangement note

Arranged in alphabetical order.

Title/Description	Instances	
Biographical Material, undated 1961 1964 1967 1970 1974-1975 1977 1979 1983 1989	box 1	folder 1
Biographical Material-List of Dr. Uhlenbeck's Articles in Journals, undated	box 1	folder 2
Biographical Material-List of Dr. Uhlenbeck's Books and Reviews, undated	box 1	folder 3
Biographical Material-List of Books that Dr. Uhlenbeck reviewed, undated	box 1	folder 4
Biographical Material-List of Published Lectures and Speeches, undated	box 1	folder 5
Biographical Material-List of Widely Circulated and Partially Published Reports and Lecture Notes, undated	box 1	folder 6
Honors, Awards	box 1	folder 7
Obituaries, 1988	box 1	folder 8
American Physical Society Memorial Symposium in Memory of G. E. Uhlenbeck, 1988-1989	box 1	folder 9
Personal correspondence, 1961-1962 1964 1966	box 1	folder 10
Else Uhlenbeck Correspondence (wife), 1985-1989, undated	box 1	folder 11

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## Correspondence, 1943-1988, undated

Physical Description: 2.8 Cubic Feet

### Scope and Contents note

Includes personal and professional correspondence. Correspondents include Samuel Goudsmit, A. Pais, Eugene Wigner and H. Woolf which include his memories of Einstein in Leiden.

**Arrangement note**

Arranged in alphabetical order by correspondent name.

<b>Title/Description</b>	<b>Instances</b>	
Aaserud, Finn, 1980	box 2	folder 1
Abramovici, Alex, 1976	box 2	folder 2
Abrams, Al, 1978	box 2	folder 3
Adair, Robert K., 1979	box 2	folder 4
Adomian, George, 1961-1962 1964-1965 1982	box 2	folder 5
American Journal of Physics, 1966 1969-1973	box 2	folder 6
Amsterdam-Rotterdam Bank, 1974	box 2	folder 7
Araki, Huzihiro, 1974	box 2	folder 8
Aulick, F. C., 1976	box 2	folder 9
"B" Name Letter Correspondence	box 2	folder 10
Belkin, Samuel, 1975	box 2	folder 11
W. A. Benjamin, Book Publishers, 1961-1962 1965	box 2	folder 12
Bethe, Hans, 1975	box 2	folder 13
de Boer, J., 1961 April 1963	box 2	folder 14
de Boer, J. May, 1963-1967 1970	box 2	folder 15
de Boer, P.C.I., 1967	box 2	folder 16
Borowitz, Sidney, 1980	box 2	folder 17
Bowen, Dwain B., 1974	box 2	folder 18
Brayshaw, David D., 1965-1966 1968	box 2	folder 19
Brink, Frank, 1981	box 2	folder 20
Brittin, Wesley, 1974	box 2	folder 21
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Brown, Laurie M., 1979	box 2	folder 23
Burger, J. M., 1961-1964	box 2	folder 24
Cantore, Enrico, 1976	box 2	folder 25
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Case, Kenneth M., 1974	box 2	folder 27
Casimir, H. B. G., 1976-1977	box 2	folder 28
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Chen, J., 1976	box 2	folder 31
Chen, Wang Min, 1984	box 2	folder 32
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Cohen, E. G. D., 1960-1962	box 2	folder 34
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Crane, H. R., 1979	box 2	folder 40
"D" Name Letter Correspondence	box 2	folder 41
Dorfman, J. Robert, 1961-1964 1966 1969-1970 1979	box 2	folder 42
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Dutta, M., 1973 1975 1978	box 3	folder 3
Dvoretzky, Aryeh, 1978	box 3	folder 4
"E" Name Letter Correspondence	box 3	folder 5
Emch, Gerard G., 1968-1969	box 3	folder 6
Emrich, Raymond J., 1967	box 3	folder 7
Encyclopaedia Britannica, 1960-1961 1967 1969	box 3	folder 8
Evan, William M., 1965	box 3	folder 9
Evans, Robert W., 1965	box 3	folder 10
"F" Name Letter Correspondence	box 3	folder 11
Fahrney, D. S., 1972	box 3	folder 12
Fisher, M., 1968	box 3	folder 13
Fiszdon, W., 1971-1972 1974	box 3	folder 14
Fixman, Marshall, 1965	box 3	folder 15
Foch, James, 1964-1966	box 3	folder 16
Foch, James, 1967	box 3	folder 17
Foch, James, 1968-1969 1972 1977-1978 undated	box 3	folder 18
Foldy, Leslie, 1979	box 3	folder 19



Ford, George W., 1961-1965 1967-1971	box 3	folder 20
Ford, Joseph, 1972	box 3	folder 21
Fowler, Richard G., 1976-1977 1979 undated	box 3	folder 22
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"H" Name Letter Correspondence	box 4	folder 30
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Journal of Chemical Physics, 1960-1969	box 4	folder 56
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Journal of Mathematical Physics, 1965 1974	box 5	folder 2
'K' Name Letter Correspondence	box 5	folder 3
Kac., Mark, 1958 1963-1966 1969 1978	box 5	folder 4
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Keizer, Joel E., 1973 1975-1976 1978-1979	box 5	folder 6
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Leaf, Boris, 1976	box 5	folder 27
Lebowitz, Joel L., 1968	box 5	folder 28
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Lieb, Elliot H., 1974	box 5	folder 30
Lin, C. C., 1962-1963	box 5	folder 31
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Lipschutz-Yevick, Miriam, 1966	box 5	folder 34
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"M' Name Letter Correspondence	box 5	folder 41
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McGraw-Hill Book Company, Daniel N. Lapedes, editor, 1978	box 5	folder 53
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Mehr, Jagdish, 1969 1972 1974-1976	box 6	folder 2
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Moore, William R., 1974	box 6	folder 8
Murphy Thomas, 1964-1969	box 6	folder 9
Musher, Jeremy I., 1961-1964	box 6	folder 10
"N" Name Letter Correspondence	box 6	folder 11
Nagel, Ernest, 1973	box 6	folder 12
National Academy of Sciences, 1966-1967 1979	box 6	folder 13
Neumark, Gertrude F., 1967-1968	box 6	folder 14
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O'Neill, Patrick E., 1968-1969	box 6	folder 23
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Pais, Abraham, 1962 1982	box 6	folder 28
Pauli, Wolfgang, 1960-1961	box 6	folder 29
Perkeris, C. L., 1965	box 6	folder 30
Phillipson, Paul E., 1975	box 6	folder 31
Physical Review Letters, 1972-1973 1976-1977	box 6	folder 32
The Physical Review, 1975 1977	box 6	folder 33
Princeton University Press, 1981	box 7	folder 1
Pusey, Nathan, 1970	box 7	folder 2
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"R" Name Letter Correspondence	box 7	folder 5
Rajagopal, A. J., 1978		

	box 7	folder 6
Ratliff, Floyd, 1975	box 7	folder 7
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Henry Russel Lecture Dinner, 1961-1963 1965-1966	box 7	folder 13
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"S" Name Letter Correspondence	box 7	folder 15
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Segre, Emilio, 1979	box 7	folder 26
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Siegal, Armand, 1963-1964	box 7	folder 28
Siegert, Arnold J. F., 1961 1964 1970	box 7	folder 29
Simmons, R. O., 1974	box 7	folder 30
Sloan Foundation, 1970-1971 1973-1974	box 7	folder 31
Smith, Alice Kimball, 1979	box 7	folder 32
Smith, Sam C., 1975	box 7	folder 33
Springer-Verlag, 1973	box 7	folder 34
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Stolzenburg, Klaus, 1974	box 7	folder 36
Stout, J. W., 1975	box 7	folder 37

Stoyanov, S., 1974	box 7	folder 38
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Szu, H. H., 1971 1973-1976	box 7	folder 40
Tellegen, B. D. H., 1973	box 7	folder 41
Tempeley, H. N. V., 1964	box 7	folder 42
Throop, Gerald, 1965-1969 1972 undated	box 7	folder 43
Trappeniers, N. J., 1972	box 7	folder 44
Trigg, George L., 1975	box 7	folder 45
Trotter, Robert, 1980	box 7	folder 46
Uehling, Edwin A., 1965	box 8	folder 1
Union of Concerned Scientists n.d.	box 8	folder 2
University of Illinois at Champaign-Urbana, 1974	box 8	folder 3
The University of Michigan, 1978-1980	box 8	folder 4
Van Gleck, J. H., 1977	box 8	folder 5
Van Ootjen, D. J., 1964	box 8	folder 6
Veltman, M., 1974-1975	box 8	folder 7
Verwey, E. J. W., 1961	box 8	folder 8
Vineyard, George H., 1980	box 8	folder 9
Vogel, J., 1964	box 8	folder 10
"W" Name Letter Correspondence	box 8	folder 11
Wahl, Charles E., 1965	box 8	folder 12
Waldman, L., 1972	box 8	folder 13
Wang, Cheng Shu, 1956 1972	box 8	folder 14
Wannier, G. H., 1965	box 8	folder 15
Ward, J. C., 1960 1964	box 8	folder 16
Weart, Spencer, 1974-1975	box 8	folder 17
Wehausen, John V., 1978-1979	box 8	folder 18
Weiner, Charles, 1979	box 8	folder 19
Weisskopf, Victor, 1976	box 8	folder 20
Wells. Gene L., 1977	box 8	folder 21
Wergeland, H., 1966-1967 1972 1979 undated	box 8	folder 22
Wigner, Eugene P., 1963	box 8	folder 23

Wilder, R. L., 1977	box 8	folder 24
Wilson, Robins L., 1976	box 8	folder 25
The Wolf Prize, 1979-1981 1984	box 8	folder 26
Woolf, Harry, 1978-1979	box 8	folder 27
Wu-Ta-You, 1961 1963	box 8	folder 28
Yeshiva University, 1962 1965	box 8	folder 29
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Miscellaneous Correspondence, 1962 1964 1970 1972 1976 1977 undated	box 8	folder 33

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## Subject Files, 1958-1981

Physical Description: 2 Cubic Feet

### Scope and Contents note

Subjects include Dr. Uhlenbeck's correspondence as president of the American Physical Society, material related to the controversy over Admiral Lewis B. Strauss' speech before the Society and documents pertaining to the American Institute of Physics and the Institute's efforts to establish a Center for the History of Physics.

### Arrangement note

Arranged in alphabetical order by subject.

Title/Description	Instances	
Addison-Wesley Publishing Company, 1961	box 9	folder 1
Air Force Office of Scientific Research-Office of Aerospace Research, 1961	box 9	folder 2
American Institute of Physics, 1959-1960 March	box 9	folder 3
American Institute of Physics, 1960 June-September	box 9	folder 4
American Institute of Physics, 1950 October-December	box 9	folder 5
American Institute of Physics, 1961 January-March	box 9	folder 6
American Institute of Physics, 1961 May-July 1964	box 9	folder 7
American Institute of Physics-A.I.P. Advisory Committee on History and Philosophy of Physics, 1961-1962	box 9	folder 8
American Institute of Physics-A.I.P. Advisory Committee on History and Philosophy of Physics, 1963-1964	box 9	folder 9



American Institute of Physics-A.I.P. Advisory Committee on History and Philosophy of Physics, 1964	box 9	folder 10
American Institute of Physics-A.I.P. Advisory Committee on History and Philosophy of Physics, 1964-1966	box 9	folder 11
American Institute of Physics-A.I.P. Advisory Committee on History and Philosophy of Physics, 1970-1973	box 9	folder 12
American Institute of Physics-A.I.P. Advisory Committee on History and Philosophy of Physics, 1973	box 9	folder 13
American Institute of Physics-A.I.P. Advisory Committee on History and Philosophy of Physics, 1974-1975	box 9	folder 14
A.I.P. Center for the History of Physics-Scripts: The Beginning of Nuclear Energy - The Discovery of Nuclear Fission, 1974	box 10	folder 1
A.I.P. Center for the History of Physics-Program 3. The Living History of Physics - Tape 1. The Discovery of Nuclear Fission, 1974	box 10	folder 2
A.I.P. Center for the History of Physics-Program 3. The Living History of Physics - Tape 2. The Discovery of Nuclear Fission, 1974	box 10	folder 3
American Mathematical Society-Res Jost Manuscript, 1963	box 10	folder 4
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Advisory Board for the Interscience Monograph and Tract Series, 1961-1962 1964 1966	box 12	folder 3
Koninklijke Nederlandse Akademie van Wetenschappen (Royal Netherlands Academy of Sciences and Letters), 1961-1962	box 12	folder 4
Max Planck Medaille-Deutsche Phys. Gesellschaft, Düsseldorf, 1964-1965	box 12	folder 5
McGraw-Hill Book Company, 1962-1965	box 12	folder 6
National Academy of Sciences, 1961-1963 July	box 12	folder 7
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National Science Foundation-Project Referee Reports, 1960 1962-1964	box 12	folder 11
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Phillips Research Laboratories Reprint List, 1961	box 12	folder 16
Prentice-Hall Inc., 1964	box 12	folder 17
Rockefeller Institute-Requests for Appointments to the Faculty, 1965	box 12	folder 18

'Science' - American Association for the Advancement of Science, 1963-1964	box 13	folder 1
Science and Technology, 1964	box 13	folder 2
John T. Tate Committee, 1964	box 13	folder 3
Vereniging van Wis. en Natuurkundige Studenten Voor-Candidaten A-E, 1964	box 13	folder 4
The Wheeler Committee, 1962-1966	box 13	folder 5
The Wheeler Committee, n.d.	box 13	folder 6
John Wiley & Sons. Inc.-Interscience Publishers, 1962 1964-1965	box 13	folder 7
Zuiver Wetenschappelijk Onderzoek (Z. O. E.) (Netherlands Organization for the Advancement of Pure Research), 1966	box 13	folder 8

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## Manuscripts, Speeches, Seminars, Lecture Notes, 1963-1980, undated

Physical Description: 0.8 Cubic Feet

### Scope and Contents note

Includes: Lectures in Statistical Mechanics, Introduction to the General Theory of Relativity and An Outline of Statistical Mechanics.

### Arrangement note

Arranged in alphabetical order.

Title/Description	Instances	
Mss. Alte und Neue Fragen der Statistischen Mechanik (in English) Speech at the Conference of the German Physical Society, 1964	box 14	folder 1
Mss. A. P. S. Meeting. Speech on S. A. Guidsmit's Recent Death, 1979	box 14	folder 2
Mss. Book Reviews: The Image of Eternity: Roots of Time in the Physical World, 1980	box 14	folder 3
Mss. The Classical Theory of the Critical Phenomena. Conference on Phenomena in the Neighborhood of Critical Points, 1965	box 14	folder 4
Mss. The Macroscopic Causality Problem, 1968	box 14	folder 5
"Is There A Direction In Time?" National Academy of Science, Seattle	box 14	folder 6
Mss. On the Origin of the Quantized Vortex Lines in Superficial Helium, undated	box 14	folder 7

Mss. On the Van Der Waals Theory of the Vapor-Liquid Equilibrium. II. Discussion of the Distribution Functions. With P.C. Hemmer and M. Kac, undated	box 14	folder 8
Mss. On the Van Der Waals Theory of the Vapor-Liquid Equilibrium. II. Discussion of the Critical Region. With P.C. Hemmer and M. Kac, 1963 1964 undated	box 14	folder 9
Mss. An Outline of Statistical Mechanics. Lecture-Noordwyck-Summer, 1967	box 14	folder 10
Mss. Some Notes on the Relation Between Fluid Mechanics and Statistical Physics for the Annual Review of Fluid Mechanics, 1978-1979	box 14	folder 11
Some Problems in the Kinetic Theory of Dilute Gases. Given at the Sydney Chapman Memorial Lecture, 1972	box 14	folder 12
Mss. Some Questions in Statistical Mechanics. The T. H. Berlin Memorial Lecture, 1965	box 14	folder 13
Summarizing Remarks - The N.U.P.A.P. Conference on Statistical Mechanics, 1966	box 14	folder 14
Mss. SUNY-Symposium on the Future of Biology, 1965	box 14	folder 15
'Van Der Waals Revisited' Universiteit von Amsterdam, 1964	box 14	folder 16

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## Notebooks, 1920-197?, undated

Physical Description: 2.8 Cubic Feet

### Arrangement note

Arranged in chronological order with undated items arranged in alphabetical order.

Title/Description	Instances	
Brandeis Summer Institute in Theoretical Physics, 1962	box 15	folder 1
Fundamental Problems in Statistical Mechanics, undated	box 15	folder 2
<b>Scope and Contents note</b>		
Lectures delivered at the Centro de Estudios Avanzados del Instituto Politécnico Nacional. Mexico.		
Introduction to the General Theory of Relativity-Aero 595-695, undated	box 15	folder 3

**Scope and Contents note**

Lectures 1 thru 10.

Introduction to the General Theory of Relativity-Aero 595-695, undated	box 15	folder 4
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**Scope and Contents note**

Lectures 11 thru 21.

Lectures-Laws of Thermodynamics (1 of 14), undated	box 15	folder 5
Lectures-Untitled (first page missing 2 of 14), undated	box 15	folder 6
Lectures-Notes on the Theory of Phase Transitions (3 of 14), undated	box 15	folder 7
Lectures-Notes: Distribution of Average with Poisson Distribution (4 of 14)	box 15	folder 8
Lectures-The Spherical Mode for Ferromagnetism (5 of 14), undated	box 15	folder 9
Lectures-Lectures in Quantum Statistical Mechanics (6 of 14), undated	box 15	folder 10
Lectures-Untitled. (7 of 14), undated	box 15	folder 11
Lectures-Untitled. (8 of 14), undated	box 15	folder 12
Lectures-Ch. 2. The Kinetic Method of Boltzmann (9 of 14), undated	box 15	folder 13
Lectures-Ch. 6. The Problem of Boltzmann (10 of 14), undated	box 15	folder 14
Lectures-Ch. 7. The Kinetic Method of Boltzmann (11 of 14), undated	box 15	folder 15
Lectures-Ch. 8. The Statistical Method of Boltzmann (12 of 14)	box 15	folder 16
Lectures-Ch. 8. The Statistical Method of Boltzmann (13 of 14), undated	box 15	folder 17
Lectures-Ch. 9. The Ideas of Gibbs (14 of 14), undated	box 15	folder 18
Lectures in Statistical Mechanics, 1961-1963 1966	box 15	folder 19

**Scope and Contents note**

[For book contract with The American Mathematical Society].

Thermodynamics/Statistical Theory. Quantum Mechanics Seminars, 1962-1965	box 15	folder 20
University of Colorado, 1965-1967	box 15	folder 21

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## Uhlenbeck Reprints, 1925-1980, undated

Physical Description: 0.8 Cubic Feet

### Arrangement note

Arranged in chronological order.

Title/Description	Instances	
Problem v. Durchlit Existentieren-College Droste [English/Dutch], 1920-1921	box 16	folder 1
E. Schrodinger-Zur Einsteinische Gastheorie [in Dutch], 1926	box 16	folder 2
Maxwell-Theory I., 1927 February	box 16	folder 3
Maxwell-Theory II, 1927 2nd Semester-1928	box 16	folder 4
Aanteekeiningen I. Ann Arbor [Dutch/English], 1928-1930	box 16	folder 5
Statistical Mechanics I., 1928 January-June	box 16	folder 6
Statistical Mechanics II. [English/Dutch], undated	box 16	folder 7
Statistical Mechanics III. [in Dutch], undated	box 16	folder 8
Partial Differential Equations. I (Till Christmas 1928), 1928-1929	box 16	folder 9
Partial Differential Equations. II (After Christmas 1928), 1928-1929	box 16	folder 10
Partial Differential Equations. III, 1929	box 16	folder 11
Quantum Electrodynamics. G. E. Uhlenbeck. 1929-30, 2nd Semester, 1929-1930, 2nd Semester	box 17	folder 1
Fluctuation Theorie, Brownian Motion etc. Summer, 1933	box 17	folder 2
Statistical Mechanics IV. Ann Arbor, After '30. Utrecht' 35. [English/Dutch], 1930-1935	box 17	folder 3
Ordinary Diff. Equations. N. D. (early thirties), early thirties	box 17	folder 4
Positron Calculation Quantum Theory Summer, 1933	box 17	folder 5
Untitled-II. Ann Arbor-Utrecht. [English/Dutch/German], 1934-1938	box 17	folder 6
Untitled. [Notes-in Dutch], 1935-1939	box 17	folder 7
Nucleiana - College. [in Dutch], 1935-1936 1936-1937	box 17	folder 8
Dirac Theorie. [in Dutch], 1937-1938	box 17	folder 9
Electronen en Relativiteitstheorie. [in Dutch], 1937-1938	box 17	folder 10
Mechanica. [in Dutch], 1937-1938	box 17	folder 11

Utrecht and Notes for Lectures in Ann Arbor Summer School. [Dutch/English], 1938	box 18	folder 1
Cosmic Rays-II. Utrecht and Ann Arbor. [Dutch/English], 1939 January 24	box 18	folder 2
IV-Nuclear Physics-Field Theories. Internal Conversion, 1939 September 20	box 18	folder 3
Ming Chen Wang [notes]. 'Must be 40s', 1940s	box 18	folder 4
Statistical Low Temperature Physics VI, 1940 March 28	box 18	folder 5
Nuclear Physics VII, Mesomias Elem. Particles. [English/Dutch]. March 1941 (up to '56), 1941 March	box 18	folder 6
Statistics-Hydrodynamics VIII Esp. Turbulence of Noise, 1942 January	box 18	folder 7
Statistics-Hydrodynamics VIII Esp. Turbulence of Noise, 1942 January	box 18	folder 8
Hydrodynamics, Compr. Fluids IX, Electro Magn. Theory, 1942 March	box 19	folder 1
Statistics-Viral Coefficient, etc., Transport Phenom., Graphs. Dec. (19) 42, 1942 December	box 19	folder 2
Solids XI, 1943 March	box 19	folder 3
Non-linear Vibrations XI B. Rad. Lab, 1944	box 19	folder 4
Bogolubov's Theory Plasma XII-Stat. Mechanics, 1944 December	box 19	folder 5
XVII-Superfluids I-Statistics Superconduct.; Superfluidity, 1948	box 19	folder 6
Field Theories XIII B, Princeton, 1948 October	box 19	folder 7
Field Theories XIV, Princeton, 1948	box 19	folder 8
Statistical Mechanics-Lecture Notes. I, [circa 1950-1960]	box 19	folder 9
Statistical Mechanics-Lecture Notes. II, [circa 1950-1960]	box 19	folder 10
Statistical Mechanics-XV. Transport Phen., H-Theorem, Ergodic Theorem. Apr. (19) 52, 1952 April	box 19	folder 11
Group Theory I, [circa 1952]	box 19	folder 12
Group Theory II, Fall 1952	box 19	folder 13
Graphs, Combinations. XVI, 1953 May	box 19	folder 14
Theory of Relativity I, Lecture Notes, 1953-1954 1955-1956	box 20	folder 1
Theory of Relativity II, Lecture Notes, 1953-1954 1955-1956 1969	box 20	folder 2
Statistical Mechanics Esp. Many Hazy Problems. XIII, 1954 October	box 20	folder 3
Particles XVIII, Fall 1958	box 20	folder 4

Statistical Mechanics XIX, Plasma's Sound Propagation. Summer, 1959	box 20	folder 5
Thermodynamics, R. I. Lectures, 1961-1962 1963-1964	box 20	folder 6
Statistical Mechanics XX, Rockefeller Institute. [Dutch/English], 1961 February	box 20	folder 7
Statistical Mechanics XXI, Rockefeller Institute, 1962 January	box 20	folder 8
<b>Scope and Contents note</b>		
[Includes correspondence in Dutch].		
Statistical Mechanics XXII, Rockefeller Institute, 1962 July	box 20	folder 9
Notes-Quantum Mechanics. Lectures, Rockefeller Institute, 1962-1963	box 20	folder 10
Statistical Mechanics XXIII, Rockefeller Institute, 1963 January	box 20	folder 11
Statistical Mechanics XXIV, Rockefeller Institute, 1965 January-February	box 20	folder 12
Statistical Mechanics XXV, Rockefeller Institute, 1966 February	box 20	folder 13
Statistical Mechanics XXVI, Fluctuation Theory, circa 1966	box 20	folder 14
Theory of Relativity-Notes III, 1967 January	box 20	folder 15
Statistical Mechanics XXVIII, Superfluids II. Rockefeller University, 1967 March	box 20	folder 16
Statistical Mechanics XXIX. Superfluids III. Lecture Notes, University of Colorado. Summer	box 21	folder 1
Statistical Mechanics XXII. Superfluids IV, circa 1968	box 21	folder 2
Statistical Mechanics XXVII, Mainly Kinetic Theory, Rockefeller University, 1969 May	box 21	folder 3
<b>Scope and Contents note</b>		
[Includes related, correspondence 1973-1974, 1980 in English and Dutch].		
Statistical Mechanics XXX, Quantum Stat. Mech., Rocke. University, 1970 July	box 21	folder 4
Statistical Mechanics XXXI Random Processes and Fluctuation Theory, 1971 December	box 21	folder 5
Aanteekeininge II. Diraciana [English and Dutch], undated	box 21	folder 6
Anistrophe Media [in Dutch], undated	box 21	folder 7
Electricity and Magnetism [Dutch and English]. (1 of 2), undated	box 21	folder 8
Electricity and Magnetism [Dutch and English]. (2 of 2)	box 21	folder 9
Equations-Untitled, undated	box 21	folder 10



Hydrodynamics, [in Dutch], Utrecht?, undated	box 21	folder 11
Kinetic Theory Problems (with? Robert L. Lewis Jr), undated	box 21	folder 12
Methode des Particuliere Soluties [Dutch and English], undated	box 21	folder 13
Notes of Work with Ehrenfest-Later Published in Nedrl. Academie [in Dutch] (1 of 2), undated	box 21	folder 14
Notes of Work with Ehrenfest-Later Published in Nedrl. Academie [in Dutch] (2 of 2)	box 21	folder 15
Quantum Mechanics (1 of 2), undated	box 21	folder 16
Quantum Mechanics (2 of 2), undated	box 22	folder 1
Randwaardop. by Particle Diff. Verg I, Elliptisch Type (In Dutch), undated	box 22	folder 2
Randwaard. Problemen by Particle Diff. Verg. II Hyperbolische Type (in Dutch), undated	box 22	folder 3
Statistical Mechanics II (in Dutch), undated	box 22	folder 4
Statistical Mechanics III (in Dutch), undated	box 22	folder 5
Statistische Mecanica, College Ehrenfest, (in Dutch), undated	box 22	folder 6
Statistische Mecanica, G.E.U. I, College Ehrenfest. [in Dutch], undated	box 22	folder 7
Statistische Mecanica, G.E.U. II, [in Dutch], undated	box 22	folder 8
Statistische Mecanica, G.E.U. III, [in Dutch], undated	box 22	folder 9
Theorie der Verrauelingen [in Dutch], undated	box 22	folder 10
Thermodynamics, undated	box 22	folder 11
Notebook-Untitled, Notes state 'Don't know the writing, Notebook bought in Dan Bosch... ', undated	box 22	folder 12
Untitled-Russian/English Translation and Grammar Notes, undated	box 22	folder 13

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## Reprints of Contemporary Physicists, 1934-1966, undated

Physical Description: 0.8 Cubic Feet

### Scope and Contents note

Includes lecture notes and articles by Hans Bethe, Richard Feynman, Enrico Fermi and J. Robert Oppenheimer.

**Arrangement note**

Arranged in alphabetical order.

<b>Title/Description</b>	<b>Instances</b>	
"Ersetzung der Hypothese vom unmechanischen Zwang durch eine Forderung bezüglich des innern Verhaltens jedes einzelnen Electrons" (with S. Goudsmit), Die Naturwissenschaften, [in German] vol. 13, 953-954, 1925	box 23	folder 1
"Opmerking over de Spectra van Waterstof in Helium" (with S. Goudsmit), Physica [in Dutch], vol. 5, 266-270, 1925	box 23	folder 2
Over een Steelling van Lorentz en Haar Uitbreiding voor Meerdimensionale Ruimten, Physica [in Dutch], vol. 5, 423-428, 1925	box 23	folder 3
"Die Kopplungsmöglichkeiten der Quantenvektoren im Atom" (with S. Goudsmit) [in German] vol. 35, 618-625, 1926	box 23	folder 4
"On the Connection of Different Methods of Solution of the Wave Equation in Multi-dimensional Spaces" (with P. Ehrenfest) Proceedings Royal Academy Amsterdam, vol. 29, 1280-1285, 1926	box 23	folder 5
"Over het Roteerende Electron en de Structuur der Spectra" (with S. Goudsmit), Physica [in Dutch], vol 6, 273-290, 1926	box 23	folder 6
"Zum Einsteinschen "Mischungsparaciodoxon" (with P. Ehrenfest). Zeitschrift für Physik [in German] vol. 41, 24-26, 1927	box 23	folder 7
"A Problem in Brownian Motion" (with S. Goudsmit), Physical Review, vol. 34, 145-151, 1929	box 23	folder 8
"On the Wentzel-Brillouin-Kramers Approximate Solution of the Wave Equation" (with L. A. Young), Physical Review, vol. 36, 1154-1167, 1930	box 23	folder 9
"The Value of e/m by Deflection Experiments" (with L. A. Young), Physical Review, vol. 36, 1721-1727, 1930	box 23	folder 10
"Brownian Motion of Strings and Elastic Rods" (with G. A. van Lear), Physical Review, vol. 38, 1583-1598, 1931	box 23	folder 11
"Transport Phenomena in Einstein-Bose and Fermi-Dirac Gases" (with E. A. Uehling) Physical Review, vol. 43, 552-561, 1933	box 23	folder 12
"On the Recombination of Electrons and Positrons" (with Enrico Fermi), Physical Review, vol. 44, 510-511, 1933	box 23	folder 13
"Disintegration of Li/6 by Protons and Deutrons" (with Ta You Wu), Physical Review, vol. 45, 553-554, 1934	box 23	folder 14
"Spontaneous Disintegration of Proton or Neutron According to the Fermi Theory" (with H. C. Wolfe). Physical Review, vol. 46, 237, 1934	box 23	folder 15

"The Probability of Position in a Canonical Ensemble", Journal of Mathematics and Physics, (M.I.T.) vol. 14, 10-16, 1935	box 23	folder 16
"Statistical Energy Distribution for a Small Number of Particles" (with S. Goudsmit). Pieter Zeeman Jubilee Volume, The Hague, Nijhoff, 201-211, 1935	box 23	folder 17
"On the Fermi Theory of B-Radioactivity" (with E. J. Konopinski), Physical Review, vol. 48, 7-12, 1935	box 23	folder 18
"Higher Order Derivatives in the Interaction "Ansatz" of the Fermi Theory" (with E. J. Konopinski), Physical Review, vol. 48, 107-108, 1935	box 23	folder 19
"The Formation of Electron-Positron Pairs by Internal Conversion of Radiation" (with M. E. Rose), Physical Review, vol. 48, 211-222, 1935	box 23	folder 20
"Emission of Gamma Radiation during the Beta Decay of Nuclei" (with J. K. Knipp), Physica. vol. 3, 425-439, 1936	box 23	folder 21
"Some Kinetic Problems Regarding the Motion of Neutrons through Paraffine" (with L. S. Ornstein), Physica, vol. 4, 478-486, 1937	box 23	folder 22
"Het Principe van Behoud van Energie". [in Dutch]. Gravenhage, Martinus Nijhoff, 1-16, 1935	box 23	folder 23
"On the Statistical Calculation of the Density of Energy Levels of the Nuclei" (with C. Van Lier), Physica, vol. 4, 531-542, 1937	box 23	folder 24
"Note on the Law of Sargent" (with H. Kuiper), Physica, vol. 4, 601-605, 1937	box 23	folder 25
"The Quantum Theory of Non-Ideal Gas. II, Behavior at Low Temperatures" (with E. Beth), Physica, vol. 4, 915-924, 1937	box 23	folder 26
"Stability of Nuclear Isomers" (with M. H. Hebb), Physica, vol. 5, 605-608, 1938	box 23	folder 27
"On the Theory of Cosmic-Ray Showers. I. The Furry Model and the Fluctuation Problem" (with A. Nordsieck and W. E. Lamb, Jr.), Physica, vol. 7, 344-360, 1940	box 23	folder 28
"On the Fermi Theory of B-Radioactivity, II. The "Forbidden Spectra" (with E. J. Konopinski). Physical Review, vol. 60, 308-320, 1941	box 23	folder 29
"On the Theory of Cosmic-Ray Showers. Further Contributions to the Fluctuation Problem" (with W. T. Scott), Physical Review, vol. 62, 497-508, 1942	box 23	folder 30
"On the Transport Phenomena in Rarified Gas-Monograph" (with C. S. Wang Chang), University of Michigan, 1-22, 1948	box 23	folder 31
"Diffraction of Shock Waves Around Various Obstacles", Engineering Research Institute, University of Michigan, Ann Arbor, Monograph (1-6) with photographic examples (1-73), 1950	box 23	folder 32

"On Field Theories with Non-Localized Action" (with A. Pais), Physical Review, vol. 79, 145-165, 1950	box 23	folder 33
"On the Directional Correlation of Successive Nuclear Radiations" (with D. L. Falkoff), Physical Review, vol 79, 323-333, 1950	box 23	folder 34
"On the Beta-Gamma-Angular Correlation" (with D. L. Falkoff), Physical Review, vol. 79, 334-340, 1950	box 23	folder 35
"On the Notion of Pressure in a Canonical Ensemble" (with R. J. Riddell Jr.), Journal of Chemical Physics, vol. 18, 1066-1069, 1950	box 23	folder 36
"Transport Phenomena in Polyatomic Gases-Monograph" (with C. S. Wang Chang), University of Michigan, 1-46, 1951	box 23	folder 37
"Is There a Neutral u-Meson"? (with C. S. Wang Chang), Physical Review, vol. 85, 684, 1952	box 23	folder 38
"On the Propagation of Sound in Monatomic Gases- Monograph" (with C. S. Wang Chang), University of Michigan, 1-52, 1952	box 23	folder 39
"The Heat Transport Between Parallel Plates As Functions of the Knudsen Number-" Monograph (with C. S. Wang Chang), University of Michigan, 1-32, 1953	box 23	folder 40
"On the Theory of the Virial Development of the Equation of State of Monoatomic Gases" (with R. J. Riddell Jr.), Journal of Chemical Physics. vol. 21, 2056-2064, 1953	box 23	folder 41
"Transport Verschuinselen in Meer-Atomige Gassen, Natuurkunde" [in Dutch], 329-336, 1955	box 24	folder 1
"Combinatorial Problems in the Theory of Graphs. I." (with G. W. Ford), Proceedings of the National Academy of Sciences. vol. 42, 122-128, 1956	box 24	folder 2
"Combinatorial Problems in the Theory of Graphs. II. " (with G. W. Ford and R. Z. Norman), Proceedings of the National Academy of Sciences, vol. 42, 203-208, 1956	box 24	folder 3
"On the Behavior of Gas Near a Wall-Monograph" (with C. S. Wang Chang), University of Michigan, 1-32, 1956	box 24	folder 4
"Reminiscences of Professor Paul Ehrenfest", American Journal of Physics, vol. 24, no. 6, 431-433, 1956	box 24	folder 5
"The Symmetry in Time and Other Basic Symmetry Laws of Nature", Michigan Alumnus Quarterly Review, vol. LXIII, No. 10, 50-55, 1956	box 24	folder 6
"Some Fundamental Problems in Statistical Physics", Proceedings of the International Congress of Mathematicians, 256-267, 1958	box 24	folder 7
"On the Quantum Theory of the Third Virial Coefficient" (with A Pals), Physical Review, vol. 116, 250-269, 1959	box 24	folder 8

"Some Recent Progress in Statistical Mechanics", Physics Today, vol. 13, no. 7, 16-21, 1960	box 24	folder 9
"Part B, the Theory of Linear Graphs with Applications to the Theory of Virial Development the Properties of Values" (with G. W. Ford), Studies in Statistical Mechanics, vol. 1, 1-211, 1962	box 24	folder 10
"On the van der Waals Theory of the Vapor-Liquid Equilibrium. II. Discussion of the Distribution Functions" (with M. Kac and P. C. Hemmer), Journal of Mathematical Physics, vol. 4, 229-247, 1963	box 24	folder 11
"Is There an Arrow in Time"? Rockefeller Institute Review, vol. 1, no. 2, 10-15, 1963	box 24	folder 12
"Alte und Neue fragen der Statistischen Mechanik", Physikertagung [in English], 1-19, 1964	box 24	folder 13
"Part B. A Critical Study of Some Theories of the Liquid State including a Comparison with Experiment", (by J. M. H. Leveit And E. G. D. Cohen), J. de Boer and G. E. Uhlenbeck, editors, North Holland Publishing Co. 1-239, 1964	box 24	folder 14
"Statistical Mechanics of Equilibrium and Non-equilibrium. On Critical Phenomena in a van der Waals Gas" (with P. C. Hemmer), Proceedings of the International Symposium on Statistical Mechanics of Thermodynamics, Aachen, 241-252, 1964	box 24	folder 15
"Part C. The Heat Conductivity and Viscosity of Polyatomic Gases" (with C. S. Wang Chang and J. de Boer), Studies in Statistical Mechanics, vol. II, 243-268, 1964	box 24	folder 16
"On the van der Waals Theory of the Vapor-Liquid Equilibrium. III. Discussion of the Critical Region" (with P. C. Hemmer and M. Kac), Journal of Mathematical Physics, vol. 5, 60-74, 1964	box 24	folder 17
"van der Waals Revisited" [in Dutch], North Holland Publishing Co., 1-16, 1964	box 24	folder 18
"Structure of Statistical Mechanics", Proceedings of the 1966 Midwest Conference on Theoretical Physics, Indiana University, 1-12, 1966	box 24	folder 19
"Propagation of Sound in Monatomic Gases" (with J. Foch), Physical Review Letters. vol. 19, 1025-1027, 1967	box 24	folder 20
"Gibt Es eine Richtung im Aglauf der Zeit"? Umschau Verlag, Frankfurt [in German], Heft 8, 237-241, 1967	box 24	folder 21
"Teaching of Physics of Fluids in U.S. Colleges and Universities" (with Raymond J. Emerich and Howard A. Snyder), American Journal of Physics, vol. 36, no. 10, 886-895 1968)	box 24	folder 22
"Thermodynamic Equilibrium of Rotating Superfluids" (with S. Putterman), Physics of Fluids, vol. 12. 2229-2236, 1969	box 24	folder 23
"Contributions to Non-Equilibrium Thermodynamics. I. Theory of Hydrodynamical Fluctuations" (with R. F. Fox), Physics of Fluids, vol. 13, 1893-1902, 1970	box 24	folder 24

"Contributions to Non-Equilibrium Thermodynamics. II. Fluctuation Theory for the Boltzmann Equation" (with R. F. Fox), Physics of Fluids, vol. 13, 2881-2890, 1970	box 24	folder 25
"Some Questions About Quantum Statistical Mechanics", Physica Norvegica. vol. 5, 139-144, 1971	box 24	folder 26
"Theory of Sound Propagation in Mixtures of Monoatomic Gases" (with J. D. Foch and M. Fuentes Losa), Physics of Fluids. vol. 15, 1224-1232, 1972	box 24	folder 27
"Possible Origin of the Quantized Vortices in He II" (with S. Putterman and M. Kac), Physical Review Letters, vol. 29, 546-549, 1972	box 24	folder 28
"Problems of Statistical Physics", in 'The Physicists Concept of Nature'. D. Reidel Pub. Co., Dordrecht, Holland. 501-513, 1973	box 24	folder 29
"Some Problems In the Kinetic Theory of Dilute Gases", Rarefied Gas Dynamics, Academic Press Inc., 3-18, 1974	box 24	folder 30
"Fifty Years of Spin: Personal Reminiscences", Physics Today, vol. 29, no. 6, 43-48, 1976	box 24	folder 31
"Some Notes on the Relation Between Fluid Mechanics and Statistical Physics", Review of Fluid Mechanics, vol. 12, 1-9, 1980	box 24	folder 32
"The Classical Theories of Critical Phenomena", Critical Phenomena, NBS Miscellaneous Pub., 273, 3-6, undated	box 24	folder 33
Fundamental Problems in Statistical Mechanics. II. An Outline of Statistical Mechanics, 1-29, undated	box 24	folder 34
"Over den Samenhang van Verschillende Oplossingsmethoden der Golfvergelijking in Meerdimensionale Ruimten" (with P. Ehrenfest), Koninklijke Akademie van Wetenschappen te Amsterdam. Afdeling Natuurkunde, [in Dutch], Deel XXXV, No. 4, 1-6, undated	box 24	folder 35
Some Aspects of Kinetic Theory, 197-207, undated	box 24	folder 36
Some Historical and Critical Remarks About the Theory of Phase Transitions, 99-107, undated	box 24	folder 37
Bethe, Hans and Teller Edward). Deviations from Thermal Equilibrium in Shock Waves, University of Michigan, 1-77, undated	box 25	folder 1
Bogoliubov, N. "Problems of a Dynamic Theory in Statistical Physics", U.S. Airforce, n.p., 1959	box 25	folder 2
Carter, Charles. "On the Van der Waals Theory of Binary Mixtures", Phd. Thesis, Rockefeller University, 1-126, 1966	box 25	folder 3
Casimir, H. B. G. "Low Temperature Physics", University of Michigan, Ann Arbor, 1-60, 1948	box 25	folder 4
Dirac, P. A. M., Dynamic Theory of Fields Classical and Quantum, Lecture Series, University of British Columbia, 1949	box 25	folder 5

Gyson, Freeman. Recent Developments in Quantum Electrodynamics. Lecture Notes, University of Michigan, 1950	box 25	folder 6
Feynman, R(ichard). A New Approach to Quantum Electrodynamics, Notes by M. Fuchs and R. J. Riddell, Jr., University of Michigan, 1949	box 25	folder 7
Feynman, R(ichard). "Quantum Electrodynamics and Meson Theories", University of Michigan, 1949	box 25	folder 8
Furry, W. H. and Oppenheimer, J. R(ober)bert. "On the Theory of the Electron and Positive", Physical Review, vol. 45, 245-262, 1934	box 25	folder 9
Kac, M. On the Theory of Random Noise and Related Problems in Statistical Physics, 1-22	box 25	folder 10
Oppenheimer, J. R. Notes on Electrodynamics, Notes on his course Physics 207B by S. Kusaka and S. Frankel, University of Calif., 1-70, 1939	box 25	folder 11
Oppenheimer, J. R. Notes on Electrodynamics, Notes on his course Physics 207B by S. Kusaka and S. Frankel, University of Calif., (pp.) 71-148, 1939	box 25	folder 12
Oppenheimer, J. R. Speech Delivered in Honor of Einstein at UNESCO House, Paris, 1965	box 25	folder 13
Klein, O., Lecture Notes on the Relativity Theory For a Book in Progress, 2 pages of formulas in front [possibly Uhlenbeck's notes]. (1 of 3), Brandeis University, 1965	box 26	folder 1
Klein, O., Lecture Notes on the Relativity Theory For a Book in Progress, 2 pages of formulas in front [possible Uhlenbeck's notes]. (2 of 3), Brandeis University, 1965	box 26	folder 2
Klein, O., Lecture Notes on the Relativity Theory For a Book in Progress, 2 pages of formulas in front [possible Uhlenbeck's notes]. (3 of 3), Brandeis University, 1965	box 26	folder 3
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