

2017

Guide to the Richard C. Heyser Collection

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eng

Describing Archives: A Content Standard

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URL: <http://www.colum.edu/archives>

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Summary Information

Repository:	College Archives & Special Collections at Columbia College Chicago
Creator:	Heyser, Richard C. (Richard Charles)
Title:	Richard C. Heyser Collection, 1904-1988 (mostly 1933-1988)
ID:	RG 1000.07
Date [inclusive]:	1904-1988
Date [bulk]:	mostly 1933-1988
Physical Description:	18.0 Cubic Feet
Language of the Material:	English
Abstract:	Richard C. Heyser (1931-1987) was a pioneer in research relating to audio and acoustic measurement techniques. This collection of his personal papers contains published and unpublished writings by Heyser as well as notes and drafts chronicling his ideas and thoughts.

How to Cite This Collection

Folder/Item Title, (date). Series Title, Richard C. Heyser Collection, College Archives & Special Collections, Columbia College Chicago.

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Biography - Richard C. Heyser

Richard (Dick) C. Heyser was born in 1931 in Chicago, Illinois. He attended the University of Arizona, where he received a BSEE degree in 1953. Awarded a Charles LeGeyt Fortescue Fellowship for advanced studies, he earned a MSEE degree from the California Institute of Technology in 1954, and spent two additional years in postgraduate work at the California Institute of Technology, Pasadena, California.

In 1956 he joined the Jet Propulsion Laboratory (JPL) of the California Institute of Technology where he became a member of the technical staff. His work involved communication and instrumentation design for space programs at JPL, including the conceptual design of America's first satellite, Explorer I, and the

application of coherent spread spectrum techniques to improve underwater sound and medical ultrasound imaging.

He maintained a personal laboratory where he conducted research on audio and acoustic measurement techniques. He was awarded nine patents, including time-delay spectrometry (TDS) and Time Energy Frequency (TEF).

Developed in 1967, TDS is a tool for acoustical analysis and design applicable to a variety of applications: medical ultrasound, ocean floor imaging, earthquake measurement and fault mapping, loudspeaker, microphone, amplifier, audio control room, recording studio and concert hall design, and noise identification and reduction in telecommunications. TDS was paired with another of Heyser's discoveries, Energy Time Curve (ETC), patented under the name Time Energy Frequency or TEF. The Crown company's division, Techron, unveiled the TEF System 10 in 1983, the first portable TDS analyzer and acoustical measurement system. TEF became an industry standard for all types of acoustical measurement applications from live-sound-reinforcement system design to voice recognition implementations.

At the time of his death on March 14, 1987, Heyser was the president-elect of the Audio Engineering Society, where he had been an active member for more than three decades. He served as a governor of the Society for 1983 to 1984 and was prominent in numerous society activities and committees.

Other roles he held include: senior editor of Audio magazine; member of the Institute of Electrical and Electronics Engineers (IEEE.); fellow of the Audio Engineering Society (AES), who further honored him in 1983 with the AES Silver Medal for his development of Time-Delay Spectrometry (TDS); fellow of the Acoustical Society of America; and member of the Hollywood Sapphire Group. He remains the only scientist to-date to have a volume of the AES Journal dedicated exclusively to his research studies about TDS.

The Richard C. Heyser Memorial Lecture series was established in May 1999 by the Audio Engineering Society Technical Council, its Board of Governors, and the Richard Heyser Scholarship Fund to honor his contributions to the field and his ability to communicate new and complex technical ideas with clarity and patience.

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About the Collection

The Richard C. Heyser Collection dates from 1904 to 1988 (mostly 1933 to 1988) in 18.0 cubic feet (10 boxes). The collection strength lies in Heyser's writings with published and unpublished full works, and notes and drafts chronicling ideas and thoughts. Other collection material includes presentations, patent information, and personal papers including schoolwork, manuals, and books.

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Collection Arrangement

The Richard C. Heyser Collection has been arranged into five series and ten subseries by subject:

Series 1: Biographical and Correspondence, 1953-1987

Sub-series 1.1: Biographical, 1953-1987

Sub-series 1.2: Correspondence, 1967-1989

Series 2: Writings, 1959-1986

Sub-series 2.1: Published Writings, 1959-1986

Sub-series 2.2: Unpublished Writings, 1969-1986

Series 3: Presentations and Talks, 1976-1986

Series 4: Patents & Time Energy Frequency (TEF), 1964-1986

Sub-series 4.1: Patents

Sub-series 4.2: Time Energy Frequency (TEF)

Series 5: Personal Papers, 1904-1984

Sub-series 5.1: Schoolwork, 1964-1986

Sub-series 5.2: Items From Books, 1979-1984

Sub-series 5.3: Manuals and Publications, 1950-1955

Sub-series 5.4: Books, 1904-1980

Materials within each series and subseries have been organized in alphabetical and chronological order.

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Administrative Information

Publication Statement

College Archives & Special Collections at Columbia College Chicago

Chicago, IL

archives@colum.edu

URL: <http://www.colum.edu/archives>

Accessible Online Material from the Richard C. Heyser Collection

While the entirety of this collection is available for research in person, portions of it have been digitized and made available online including:

[Unpublished Writings, 1971-1986](#)

Final or nearly final drafts from a selection of unpublished writings by Richard C. Heyser. This digital library include articles originally intended for publication in AUDIO and *Science* magazines

and the American Journal of Physics. In addition, this series includes Heyser's 1976 presentation, "It's a Great Day Tomorrow" and a variety of additional essay drafts. Overall, Heyser's unpublished writings reflect his philosophies behind the importance of measuring audio and his efforts to create mathematical and physics formulas for measuring sound.

Terms of Access

The entirety of the Richard C. Heyser Collection is available to all users.

Terms of Use

Materials are the property of Columbia College Chicago. Intellectual property rights of work belong to the original creators. Materials within the collection that are published and copyrighted maintain their copyright protections and must be used according to United States Copyright Law. Use of this collection and its materials is understood to be primarily for research, teaching, and creative study; additional uses, such as publication, exhibition, or other appropriate purposes may be considered upon consultation with the Archivist.

About this Guide

The material was not in order when received and much identification work was performed by Audio Arts & Acoustics faculty member Doug Jones and consultant Bob Hagenbach.

Earlier collection organization and identification was performed by Jon Prohs, who gathered material into an anthology of Richard Heyser's work for the Audio Engineering Society in 1988.

Initial Acquisition

Gift, July 2010

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Related Materials

Related Research Resource - Richard C. Heyser Memorial Lecture Series

The Richard C. Heyser Memorial Lecture series, Audio Engineering Society

[Richard C. Heyser Memorial Lectures](#)

Separated Materials

Heyser's home laboratory equipment is stored at the Audio Arts & Acoustics department

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Controlled Access Headings

- acoustics
- Sound -- Measurement
- Electrical Engineering
- Heyser, Richard C. (Richard Charles)

Requirements for Researcher's Access

All physical materials and reformatted media must be viewed during a scheduled appointment time within the College Archives & Special Collections office. No materials are to be circulated unless otherwise consulted with the Archivist.

An additional linear foot of material is not yet available for research.

Access to some audiovisual media in the collection, such as VHS or audio cassette, may be temporarily unavailable pending digital reformatting.

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Technical Requirements for Researcher's Access

Researchers viewing digitized, [online material](#) from this collection may access these materials from home via the World Wide Web 24/7.

Access to reformatted media in the collection, such as VHS, audio cassette, phonographic records, or computer files, must be viewed within the College Archives & Special Collections office during a scheduled appointment. Although reformatted, these items cannot be sent electronically nor can be published in our online database due to copyright restrictions. A computer and other necessary equipment will be provided during the appointment to access these materials.

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Collection Inventory

Series 1: Biographical and Correspondence, 1953-1987

Date [inclusive]: 1953-1987

About This Section

The series contains biographic information and correspondence relating to his work. Further correspondence related to his patents are in series four.

Sub-Series 1.1: Biographical

About This Section

Contains biographical information about Heyser including tribute material from his colleagues, information, and college yearbooks

Title/Description	Instances
Box 1	
Folder 1: Desert yearbook, University of Arizona, 1953	
<u>Date [inclusive]</u> : 1953	
Folder 2: Arizona Alumnus' magazines, 1959-1961	
<u>Date [inclusive]</u> : 1959-1961	
Folder 3: Katheryn Heyser/'Hawaiian Hand Me Downs'	
Folder 4: Notes and Reminders, 1973-1986	
<u>Date [inclusive]</u> : 1973-1986	
Folder 5: Article: signal biasing amplifier, 1960	
<u>Date [inclusive]</u> : 1960	
Folder 6: Article: diagnostic tests, 1975	
<u>Date [inclusive]</u> : 1975	
Folder 7: Resume/CV information, 1975-1984	
<u>Date [inclusive]</u> : 1975-1984	
Folder 8: Audio Engineering Society (AES) fellow certificate, 1975	
<u>Date [inclusive]</u> : 1975	

Folder 9: Photos (color) re: brain studies and medical imaging research, 1974

Date [inclusive]: 1974

Folder 10: Nameplates and Audio magazine business card, 1986

Date [inclusive]: 1986

Folder 11: Dick Heyser Tribute - slide script, 1987

Date [inclusive]: 1987

Folder 12: Dick Heyser Tribute - speech, 1987

Date [inclusive]: 1987

Folder 13: Dick Heyser Tribute - comments, 1987

Date [inclusive]: 1987

Folder 14: Dick Heyser Tribute - biography, 1987

Date [inclusive]: 1987

Folder 15: Dick Heyser Tribute - historical mission, 1987

Date [inclusive]: 1987

Folder 16: Dick Heyser Tribute - articles about and articles by, 1987

Date [inclusive]: 1987

Folder 17: Dick Heyser Tribute - letters to and from, 1987

Date [inclusive]: 1987

Sub-Series 1.2: Correspondence

About This Section

Contains correspondence to and from Heyser regarding his work. All correspondence regarding his patents is located in series four. Arranged alphabetically by date.

Title/Description	Instances
Box 1	
Folder 18: Altec Corp. to Bill Fowler, 1984	
<u>Date [inclusive]: 1984</u>	
General	
re: capacitance check of voice coil alignment	
Folder 19: Arndt, Fred, 1983	
<u>Date [inclusive]: 1983</u>	

General

coordinate locator using TDS

Folder 20: Audio Engineering Society (AES) correspondence, 1967-1985

Date [inclusive]: 1967-1985

General

general letters

Folder 21: AES/ Jackie Harvey, 1967

Date [inclusive]: 1967

General

AES executive secretary

Folder 22: AES/ Jackie Harvey, 1970

Date [inclusive]: 1970

General

AES executive secretary

Folder 23: AES/ to Amy Heyser, 1989

Date [inclusive]: 1989

General

anonymous reviews of 'Fundamental Principles & Some Applications of TDS' article

Folder 24: Audio magazine/Gene Pitts, 1976-1984

Date [inclusive]: 1976-1984

General

correspondence between the men

Folder 25: Battelle: Pacific Northwest Laboratories, 1983

Date [inclusive]: 1983

General

re: ultrasonic transducers for in-vivo detection of bubbles in blood

Folder 26: Beckman Instruments, 1975

Date [inclusive]: 1975

General

re: TDS

Folder 27: Bruel Kjaer (B, 1975-1982

Date [inclusive]: 1975-1982

General

re: TDS and consultancy

Folder 28: B, 1980

Date [inclusive]: 1980

General

Heyser draft letter to

Folder 29: B, 1982

Date [inclusive]: 1982

General

Heyser draft letter to

Folder 30: B, 1983

Date [inclusive]: 1983

General

correspondence re: Heyser's energy paper

Folder 31: B, 1983

Date [inclusive]: 1983

General

re: TDS principles

Folder 32: DB magazine, 1985

Date [inclusive]: 1985

General

response to loudspeaker article

Folder 33: JW Davis Co - contract, 1979

Date [inclusive]: 1979

General

re: low voltage signal based amplification

Folder 34: Elsevier Scientific Publishing, 1975-1976

Date [inclusive]: 1975-1976

Folder 35: Gerzon, Michael/draft to, (1970s)

Date [bulk]: 1970s

General

re: Gerzon AES journal rejection

Folder 36: Gerzon, Michael, 1970-1977

Date [inclusive]: 1970-1977

General

four papers and five articles written by Gerzon

Folder 37: Hartwig, Fritz, 1972

Date [inclusive]: 1972

General

re: coherent pattern recognition with intent of word recognition

Folder 38: Hewlett Packard, 1971-1972

Date [inclusive]: 1971-1972

General

re: TDS

Folder 39: Institute for Electronic Electrical Engineers (IEEE), 1972

Date [inclusive]: 1972

General

Heyser draft response to Dr Capetanopoulos re: TDS

Folder 40: Klipsch Associates, 1967-1972

Date [inclusive]: 1967-1972

General

general letters

Folder 41: Le Croisette, DH, 1969

Date [inclusive]: 1969

General

a privileged communication + a formula regarding Heyser's TDS work

Folder 42: McGill University, 1984

Date [inclusive]: 1984

General

re: external review of master's thesis

Folder 43: Moore, Tom, 1985

Date [inclusive]: 1985

General

re: Heyser concept paper, Auditory Response, to
Armstrong Aerospace Medical Research Labs

Folder 44: Palmer, Paul, 1982

Date [inclusive]: 1982

General

re: quantum mechanics

Folder 45: Pierce, John, 1971

Date [inclusive]: 1971

General

Pierce writing: 'How I Made a Very Embarrassing
Mistake'

Folder 46: Schomer, Paul, 1972

Date [inclusive]: 1972

General

Heyser draft response to a Schomer paper

Folder 47: Synergetic Audio Concepts (Syn-Aud-Com) Tech
Topics, 1978-1979

Date [inclusive]: 1978-1979

General

articles re: TDS

Folder 48: Syn-Aud-Con Newsletter, 1978-1979

Date [inclusive]: 1978-1979

General

articles re: TDS

Folder 49: Syn-Aud-Con editors' article: TDS: A Progress
Report, 1979

Date [inclusive]: 1979

General

editors Don & Carolyn Davis wrote article for Audio Magazine

Folder 50: Syn-Aud-Con, 1979

Date [inclusive]: 1979

General

re: signal biased amplification

Folder 51: Walling, Arthur, 1977

Date [inclusive]: 1977

General

re: frequency

Folder 52: Xerox/C. Cummings, (1972, 1974)

Date [bulk]: 1972, 1974

Folder 53: General Correspondence, to, 1967-1986

Date [inclusive]: 1967-1986

Folder 54: General Correspondence, from, 1960-1986

Date [inclusive]: 1960-1986

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Series 2: Writings, 1959-1986

Date [inclusive]: 1959-1986

About This Section

Contains the published and unpublished works of Heyser including completed papers, draft, notes, and fragment writings.

Sub-Series 2.1: Published Writings

About This Section

Contains pre-prints, completed and partial drafts and notes regarding his published work. Arranged alphabetically by publication and then chronologically by date. Any notes about dates found in the later material were made by John Prohs.

Title/Description	Instances
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Box 2	
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Folder 1: AES - Signal Biasing Amplifier (SBA), 1959

Date [inclusive]: 1959

General

Audio Engineering Society (AES) presentation: Oct conference

Folder 2: AES - A Signal Biasing Output Transformerless Transistor, 1960

Date [inclusive]: 1960

General

print out of JAES vol 8 no 3 July

Folder 3: AES - Acoustical Measurements by Time Delay Spectrometry (TDS), 1967

Date [inclusive]: 1967

General

AES October presentation and Journal of AES print vol 15, no. 4 October issue

Folder 4: Acoustical Measurements by TDS - RCA laboratories reprint, 1967

Date [inclusive]: 1967

Folder 5: Acoustical Measurements by TDS - notes, 1967

Date [inclusive]: 1967

General

handwritten fragment

Folder 6: AES - Loudspeaker Phase Characteristics Time Delay Distortion Part 1, 1969

Date [inclusive]: 1969

General

JAES vol 17, no. 1 January

Folder 7: AES - Loudspeaker Phase Characteristics Time Delay Distortion Part 2, 1969

Date [inclusive]: 1969

General

JAES vol 17, no. 2 April

Folder 8: Loudspeaker Phases Characteristics Time Delay Distortion Parts 1 2, 1969

Date [inclusive]: 1969

General

final draft

Folder 9: Loudspeaker Phases Characteristics Time Delay
Distortion, 1968-1970

Date [inclusive]: 1968-1970

General

Part 1 AES preprint and loudspeaker tests

Folder 10: AES - Determination of Loudspeaker Signal
Arrival Times Part 1, 1971

Date [inclusive]: 1971

General

JAES vol 19 no. 9, October

Folder 11: AES - Determination of Loudspeaker Signal
Arrival Times Part 2, 1971

Date [inclusive]: 1971

General

JAES vol 19 no. 10, November

Folder 12: AES - Determination of Loudspeaker Signal
Arrival Times Part 3, 1971

Date [inclusive]: 1971

General

JAES vol 19 no 11, December

Folder 13: Destermination of Loudspeaker Signal Arrival
Times Part 2, 1971

Date [inclusive]: 1971

General

graphics, not used

Folder 14: Determination of Loudspeaker Signal Arrival
Times Parts 1 and 2, 1971

Date [inclusive]: 1971

General

final draft

Folder 15: AES - The Delay Plane, Objective Analysis of Subjective Properties Part 1, 1973

Date [inclusive]: 1973

General

JAES vol 21 no. 9 Nov

Folder 16: The Delay Plane, Objective Analysis of Subjective Properties Part 1, 1973

Date [inclusive]: 1973

General

final draft

Folder 17: AES - The Delay Plane, Objective Analysis of Subjective Properties Part 1, 1973

Date [inclusive]: 1973

General

presentation slides, AES May convention

Folder 18: AES - The Delay Plane, Objective Analysis of Subjective Properties Part 2, 1973

Date [inclusive]: 1973

General

JAES vol 21 no 10 December

Folder 19: The Delay Plane, Objective Analysis of Subjective Properties Part 2, 1973

Date [inclusive]: 1973

General

draft

Folder 20: The Delay Plane, Objective Analysis of Subjective Properties Part 1, 1973

Date [inclusive]: 1973

General

draft

Folder 21: The Delay Plane, Objective Analysis of Subjective Properties Part 2, 1973

Date [inclusive]: 1973

General

draft

Folder 22: The Delay Plane, Objective Analysis of Subjective Properties, 1973

Date [inclusive]: 1973

General

draft and notes

Folder 23: Heyser response: The Delay Plane, Objective Analysis of Subjective Properties Part 1, 1974

Date [inclusive]: 1974

General

draft response to Michael Gerzon letter regarding paper

Folder 24: AES - Geometric Considerations of Subjective Audio, 1974

Date [inclusive]: 1974

General

JAES vol 22 no. 2 March

Folder 25: Geometric Considerations of Subjective Audio, 1974

Date [inclusive]: 1974

General

final draft

Folder 26: Geometric Considerations of Subjective Audio, 1974

Date [inclusive]: 1974

General

draft and notes

Folder 28: AES - A Rosetta Stone for Audio? (editorial), 1974

Date [inclusive]: 1974

General

draft and notes, published in JAES vol 22 no. 4 May

Folder 29: A Rosetta Stone for Audio? (editorial), 1974

Date [inclusive]: 1974

General

different draft version

Folder 30: Some New Audio Measurements Geometry of Sound AES correspondence, 1975

Date [inclusive]: 1975

General

drafts and AES correspondence

Folder 31: AES - Geometry of Sound Perception, 1975

Date [inclusive]: 1975

General

preprint of presentation at May AES convention

Folder 32: AES - Geometry of Sound Perception, 1975

Date [inclusive]: 1975

General

presentation text and slides, May AES convention

Folder 33: AES - Geometry of Sound Perception, 1975

Date [inclusive]: 1975

General

presentation text and slides, May AES convention

Folder 34: Geometry of Sound Perception, 1975

Date [inclusive]: 1975

General

notes

Folder 35: AES - Some New Audio Measurements, 1975

Date [inclusive]: 1975

General

AES preprint

Folder 36: AES - Some New Audio Measurements, 1975

Date [inclusive]: 1975

General

presentation text, AES 51st convention, May

Folder 37: AES - Earthquake Prediction by Acoustic Methods,
1975

Date [inclusive]: 1975

General

JAES vol 23 no. 6, July/Aug

Folder 38: AES - Some Useful Geographical Relationships,
1975

Date [inclusive]: 1975

General

print copy JAES vol 23 no.7 September

Folder 39: AES - Holomorph Recording, 1976

Date [inclusive]: 1976

General

AES preprint, presented AES convention May

Folder 40: Holomorph Recording, 1976

Date [inclusive]: 1976

General

final draft

Folder 41: AES - Holomorph Recording, 1976

Date [inclusive]: 1976

General

presentation notes, slides, and draft

Folder 42: AES - Perspectives in Audio Analysis: Changing
the Frame of Reference Parts 1 2, 1976

Date [inclusive]: 1976

General

JAES vol 24 nos 8 and 9, Oct and Nov

Folder 43: Perspectives in Audio Analysis: Changing the
Frame of Reference Parts 1, 1976

Date [inclusive]: 1976

General

final draft and figures

Folder 44: Perspectives in Audio Analysis: Changing the
Frame of Reference Parts 1 and 2,, 1976

Date [inclusive]: 1976

General

draft and notes

Folder 45: JAES Forum responses, 1977

Date [inclusive]: 1977

General

print copies

Folder 46: AES - Fuzzy Alternatives, 1978

Date [inclusive]: 1978

General

preprint, JAES vol 26 no. 3 March

Folder 47: Fuzzy Alternatives, 1978

Date [inclusive]: 1978

General

draft and notes

Folder 48: AES - Imprecise Descriptors, 1978

Date [inclusive]: 1978

General

preprint of AES presentation May

Folder 49: Imprecise Descriptors, 1978

Date [inclusive]: 1978

General

final draft

Folder 50: AES - Imprecise Descriptors, 1978

Date [inclusive]: 1978

General

AES presentation text and slides

Folder 51: AES - Determining the Acoustic Position for
Proper Phase Response of Transducers, 1984

Date [inclusive]: 1984

General

JAES vol 32 no. 1/2 Jan/Feb

Folder 52: Determining the Acoustic Position for Proper Phase Response of Transducers, 1984

Date [inclusive]: 1984

General

draft and notes

Folder 53: Response to Heyser's Determining the Acoustic Position for Proper Phase Response of Transducers including their paper 'Uses and Abuses of the Energy-Time Curve', 1985

Date [inclusive]: 1985

General

JAES letter to the editor vol 33 no. 6 June from Stanley Lipshitz & John Vanderkooy

Folder 54: Heyser Response to Comments re: Determining the Acoustic Position for Proper Phase Response of Transducers, 1985

Date [inclusive]: 1985

General

response to Lipshitz/Vanderkooy letter to the editor
JAES vol 33 no. 6 June and drafts and notes

Folder 55: AES - Instantaneous Intensity, 1986

Date [inclusive]: 1986

General

preprint of AES presentation , November

Folder 56: Instantaneous Intensity, 1986

Date [inclusive]: 1986

General

final draft

Folder 57: AES - Instantaneous Intensity, 1986

Date [inclusive]: 1986

General

presentation slides, AES November

Folder 58: Instantaneous Intensity, 1986

Date [inclusive]: 1986

General

early draft

Folder 59: Instantaneous Intensity, 1986

Date [inclusive]: 1986

General

draft and notes

Folder 60: Instantaneous Intensity, 1986

Date [inclusive]: 1986

General

draft and notes

Folder 62: Instantaneous Intensity Specific Acoustic
Admittance, 1986

Date [inclusive]: 1986

General

draft and notes

Folder 63: Specific Acoustic Admittance, 1986

Date [inclusive]: 1986

General

final draft

Folder 64: AES - Specific Acoustic Admittance, 1986

Date [inclusive]: 1986

General

presentation graphics

Folder 65: Specific Acoustic Admittance, 1986

Date [inclusive]: 1986

General

draft

Folder 66: Specific Acoustic Admittance, 1986

Date [inclusive]: 1986

General

draft and notes

Box 3

Folder 1: Fundamental Principles and Some Applications of Time Delay Spectrometry (TDS), 1988

Date [inclusive]: 1988

General

posthumous AES publication in JAES special imprint:
Time Delay Spectrometry: An Anthology in, October

Folder 2: Fundamental Principles and Some Applications of TDS, 1988

Date [inclusive]: 1988

General

draft and notes

Folder 3: Fundamental Principles and Some Applications of TDS, 1988

Date [inclusive]: 1988

General

published graphics

Folder 4: Fundamental Principles and Some Applications of TDS, 1986

Date [inclusive]: 1986

General

figures and graphics

Folder 5: Fundamental Principles and Some Applications of TDS, 1986

Date [inclusive]: 1986

General

draft

Folder 6: Fundamental Principles and Some Applications of TDS, 1986

Date [inclusive]: 1986

General

draft and notes

Folder 7: Fundamental Principles and Some Applications of
TDS - TDS Summary, 1986

Date [inclusive]: 1986

General

draft

Folder 8: Fundamental Principles and Some Applications of
TDS - TDS section, 1986

Date [inclusive]: 1986

General

draft

Folder 9: Fundamental Principles and Some Applications of
TDS - Table of Contents, 1986

Date [inclusive]: 1986

General

draft

Folder 10: Fundamental Principles and Some Applications of
TDS - early notes, 1986

Date [inclusive]: 1986

General

draft and notes

Folder 11: Fundamental Principles and Some Applications of
TDS -Section 1 and 2, 1986

Date [inclusive]: 1986

General

draft

Folder 12: Fundamental Principles and Some Applications of
TDS -Sections 1 - 3, 1986

Date [inclusive]: 1986

General

draft and notes

Folder 13: Fundamental Principles and Some Applications of
TDS -Sections 1 - 4, 1986

Date [inclusive]: 1986

General

draft and notes

Folder 14: Fundamental Principles and Some Applications of
TDS, 1986

Date [inclusive]: 1986

General

Section 1: TDS History and Defense of Paradigm draft

Folder 15: Fundamental Principles and Some Applications of
TDS - Section 1, 1986

Date [inclusive]: 1986

General

draft and notes

Folder 16: Fundamental Principles and Some Applications of
TDS - Section 2, 1986

Date [inclusive]: 1986

General

draft and notes with additional three pages

Folder 17: Fundamental Principles and Some Applications of
TDS - Section 2, 1986

Date [inclusive]: 1986

General

draft and notes, paradigm discussion, Hilbert transform

Folder 18: Fundamental Principles and Some Applications of
TDS - section 2, 1986

Date [inclusive]: 1986

General

draft

Folder 19: Fundamental Principles and Some Applications of
TDS - Section 3, 1986

Date [inclusive]: 1986

General

draft and notes, includes equations, though it may not be
the third section of the paper- it may be a draft

Folder 20: Fundamental Principles and Some Applications of
TDS - Section 4, 1986

Date [inclusive]: 1986

General

drafts

Folder 21: Fundamental Principles and Some Applications of
TDS - Section 4, 1986

Date [inclusive]: 1986

General

draft, including TDS chirp, TDS on the fly, tampering
with tempering, subtractive TDS, and what is TDS

Folder 22: Fundamental Principles and Some Applications of
TDS - Section 4, 1986

Date [inclusive]: 1986

General

draft - possibly 'true' part four

Folder 23: Fundamental Principles and Some Applications of
TDS - Section 4, 1986

Date [inclusive]: 1986

General

draft - section 4 intro pages and section on harmonic
distortion

Folder 24: Fundamental Principles and Some Applications of
TDS - prehistory, 1986

Date [inclusive]: 1986

General

draft fragment of prehistory text

Folder 25: Fundamental Principles and Some Applications of
TDS - Section 1 - handwritten, 1985

Date [inclusive]: 1985

General

manuscript draft

Folder 26: Fundamental Principles and Some Applications of
TDS - Section 2 - handwritten, 1985

Date [inclusive]: 1985

General

manuscript draft

Folder 27: Fundamental Principles and Some Applications of
TDS - Section 2 - handwritten with equations, 1985

Date [inclusive]: 1985

General

manuscript draft

Folder 28: Fundamental Principles and Some Applications of
TDS - Section 3 - handwritten, 1985

Date [inclusive]: 1985

General

manuscript draft

Folder 29: Fundamental Principles and Some Applications of
TDS - Section 4 - handwritten, 1985

Date [inclusive]: 1985

General

manuscript draft

Folder 30: Fundamental Principles and Some Applications of
TDS - Section 4 - handwritten, 1985

Date [inclusive]: 1985

General

manuscript draft

Folder 31: Fundamental Principles and Some Applications of
TDS - outline of paper, 1985

Date [inclusive]: 1985

General

manuscript draft and notes

Folder 32: Fundamental Principles and Some Applications of
TDS - early handwritten drafts, 1985

Date [inclusive]: 1985

General

manuscript draft and notes

Folder 33: Fundamental Principles and Some Applications of
TDS - early handwritten drafts, 1985

Date [inclusive]: 1985

General

manuscript draft and notes

Folder 34: Fundamental Principles and Some Applications of
TDS - early handwritten drafts, 1985

Date [inclusive]: 1985

General

manuscript draft and notes

Folder 35: Fundamental Principles and Some Applications of
TDS - early handwritten drafts, 1985

Date [inclusive]: 1985

General

manuscript draft and notes

Folder 36: Fundamental Principles and Some Applications of
TDS - early handwritten drafts, 1985

Date [inclusive]: 1985

General

manuscript draft and notes

Box 4

Folder 1: Acoustical Society of America (ASA) Panel
Description and notes, 1980

Date [inclusive]: 1980

General

print copy and handwritten notes

Folder 2: ASA- form and program, 1980

Date [inclusive]: 1980

General

print copy

Folder 3: ASA- Some Advance Applications of TDS, 1980

Date [inclusive]: 1980

General

panel presentation notes

Folder 4: ASA - Subjective Objective Considerations of the Loudspeaker Interface, 1973

Date [inclusive]: 1973

General

partial notes of presentation

Folder 5: Audio Magazine- Breaththrough in Speaker Testing, 1974

Date [inclusive]: 1974

General

print copy - Audio vol 57 Nov

Folder 6: Audio Magazine - Speaker Tests - Impedance, 1974

Date [inclusive]: 1974

General

print copy - Audio vol 58 Sept

Folder 7: Audio Magazine - Speaker Tests - Phase Response, 1974

Date [inclusive]: 1974

General

print copy - vol 58 December

Folder 8: Audio Magazine - Speaker Tests - Room Test, 1975

Date [inclusive]: 1975

General

print copy - Audio vol 59 Jan

Folder 9: Audio Magazine - Speaker Tests- Polar Response, 1975

Date [inclusive]: 1975

General

print copy - Audio vol 59 May

Folder 10: Audio Magazine - Harmonic Distortion, 1976

Date [inclusive]: 1976

General

print copy - Audio vol 60 Feb

Folder 11: Audio Magazine - IM Distortion in Speaker Systems, 1976

Date [inclusive]: 1976

General

print copy - Audio vol 60 March

Folder 12: Audio Magazine - Crescendo Test, 1976

Date [inclusive]: 1976

General

print copy - Audio vol 60 May

Folder 13: Audio Magazine - Energy-Time Test, 1976

Date [inclusive]: 1976

General

print copy - Audio vol 60 June

Folder 14: Audio Magazine - Perception and Geometry, 1977

Date [inclusive]: 1977

General

final draft, Audio vol 61 June

Folder 15: Perception and Geometry Unpublished, 1977

Date [inclusive]: 1977

General

alternate version

Folder 16: Perception and Geometry, 1977

Date [inclusive]: 1977

General

draft and notes of published version

Folder 17: Audio Magazine - Time and Frequency Loudspeaker Measurements, 1977

Date [inclusive]: 1977

General

final draft, Audio vol 61 July

Folder 18: Time and Frequency Loudspeaker Measurements, 1977

Date [inclusive]: 1977

General

drafts and notes

Folder 19: Audio Magazine - Alternatives, 1978

Date [inclusive]: 1978

General

print copy, Audio vol 62 Feb

Folder 20: Alternatives, 1978

Date [inclusive]: 1978

General

final draft

Folder 21: Audio Magazine -Hearing vs. Measurement, 1978

Date [inclusive]: 1978

General

final draft, Audio vol 62 March

Folder 22: Hearing vs. Measurement, 1978

Date [inclusive]: 1978

General

draft

Folder 23: Audio Magazine - Acoustic Rosetta Stone, 1979

Date [inclusive]: 1979

General

final draft, Audio vol 63 Jan

Folder 24: Audio Magazine - A View Through Different Windows, 1979

Date [inclusive]: 1979

General

final draft, Audio vol 63 Feb

Folder 25: Audio Magazine - Polarity Convention (for the Forum section), 1979

Date [inclusive]: 1979

General

print copy, Audio vol 63 Sept

Folder 26: Audio Magazine - Catastrophe Theory and Its Effect on Audio, 1979

Date [inclusive]: 1979

General

print copy, Audio vol 63 Mar/Apr/May

Folder 27: Catastrophe Theory and Its Effect on Audio, 1979

Date [inclusive]: 1979

General

draft and notes

Folder 28: Audio Magazine - Loudspeaker test research and graphs for equipment profiles series, 1973-1986

Date [inclusive]: 1973-1986

General

notes and graphs

Folder 29: Audio Magazine - Equipment Profile: Altec Concept EQ5, 1974

Date [inclusive]: 1974

General

draft, Audio vol 58 Feb

Folder 30: Audio Magazine - Equipment Profile: Hartley Zodiak, 1977

Date [inclusive]: 1977

General

draft, Audio vol 61 June

Folder 31: Audio Magazine - Equipment Profile: Jensen, 1977

Date [inclusive]: 1977

General

draft, Audio vol 61 July

Folder 32: Audio Magazine - Equipment Profile: Tanroy Model Berkeley, 1977

Date [inclusive]: 1977

General

draft, Audio vol 61 Dec

Folder 33: Audio Magazine - Equipment Profile: B, 1978

Date [inclusive]: 1978

General

draft, Audio vol 62, Feb

Folder 34: Audio Magazine - Equipment Profile: Fried Products Model Q loudspeaker, 1980

Date [inclusive]: 1980

General

draft, Audio vol 64 June

Folder 35: Audio Magazine - Equipment Profile: Quad SL 63 loudspeaker, 1972

Date [inclusive]: 1972

General

draft, Audio vol 69 June

Folder 36: Australian Hi-Fi magazine - 'Energy Time Test', 1973

Date [inclusive]: 1973

General

print copy, Hi-Fi, vol 8, no 1

Folder 37: IEEE- 'Transmission Ultrasonography' (Heyser and D.H. Le Croisette, 1976

Date [inclusive]: 1976

General

pre print, Institute of Electrical and Electronics Engineers (IEEE) Symposium Proceedings

Folder 38: IEEE - Monitor - 'Concepts in the Frequency and Time Domain Response of Loudspeakers', 1976

Date [inclusive]: 1976

General

print copy, Institute of Electrical and Electronics Engineers (IEEE) Monitor journal, vol 37, no 3 March
Folder 39: IEEE - Monitor - 'Concepts

Folder 39: IEEE - Monitor - 'Concepts in the Frequency and Time Domain Response of Loudspeakers', 1976

Date [inclusive]: 1976

General

drafts

Folder 40: Syn-Aud-Con - 'Square Wave Testing', 1976

Date [inclusive]: 1976

General

print copy, Synergetic Audio Concepts (Syn-Aud-Con)
Newsletter, vol 2, no 3

Folder 41: Syn-Aud-Con - 'Some Useful Graphical Relationships', 1976

Date [inclusive]: 1976

General

print copy, Synergetic Audio Concepts Tech Topic, vol
3 no 7 Jan

Folder 42: Syn-Aud-Con - 'The Concept of Distortion', 1980

Date [inclusive]: 1980

General

print copy, Synergetic Audio Concepts Newsletter vol 7
Summer

Folder 43: Syn-Aud-Con - 'The Concept of Distortion', 1980

Date [inclusive]: 1980

General

final draft

Folder 44: Video Magazine - 'Holomorphs - Beyond Tape and Disc', 1981

Date [inclusive]: 1981

General

print copy, Video Magazine, vol 4 no 10 Jan

Sub-Series 2: Unpublished Writings

About This Section

Contains completed and partial drafts and notes regarding his work. Arranged chronologically by date, with two sections at the end of the subseries for unpublished Audio magazine articles and the undated material. Any notes

about dates found inside folders of the later material were made by John Prohs and any notes on the outside of folders were made by Doug Jones.

Title/Description	Instances
Box 4	
Folder 45: Schmatics for Heyser's personal test equipment setup, (1960s) <u>Date [bulk]:</u> 1960s	
General	
handwritten diagram	
Folder 46: A Law of Sines for Transistors, 1969 <u>Date [inclusive]:</u> 1969	
General	
handwritten draft	
Folder 47: A Unique Tranformerless Transistor Power Amplified, 1969 <u>Date [inclusive]:</u> 1969	
General	
draft	
Folder 48: Microphone Theory, 1970 <u>Date [inclusive]:</u> 1970	
General	
handwritten draft	
Folder 49: Signal Analysis, 1971 <u>Date [inclusive]:</u> 1971	
General	
draft and handwritten notes	
Folder 50: The Impulse and the Doublet, 1971 <u>Date [inclusive]:</u> 1971	
General	
handwritten draft, different from loudspeaker signal arrival time article	
Folder 51: Delay Plane, 1972 <u>Date [inclusive]:</u> 1972	

General

handwritten draft and formulas

Folder 52: Reducing Uncertainty, 1972

Date [inclusive]: 1972

General

draft and handwritten notes, two different drafts

Folder 53: Uncertainty Principle, 1972

Date [inclusive]: 1972

General

draft

Folder 54: Uncertainty Principle, 1972

Date [inclusive]: 1972

General

draft and handwritten notes

Folder 55: Brief Theory of Coherent Processor, 1973

Date [inclusive]: 1973

General

drafts

Folder 56: Acoustical Society of America (ASA) - Time Delay Spectrometry + correspondence, 1974

Date [inclusive]: 1974

General

Final draft, ASA Journal submission

Folder 57: Time Delay Spectrometry, 1974

Date [inclusive]: 1974

General

drafts

Folder 58: Time Delay Spectrometry, 1974

Date [inclusive]: 1974

General

draft

Folder 59: Time Delay Spectrometry, 1974

Date [inclusive]: 1974

General

handwritten draft and notes

Folder 60: Linear Geometry Signal Propagation, 1975

Date [inclusive]: 1975

General

handwritten draft and notes

Folder 61: Perception of Sound, 1975

Date [inclusive]: 1975

General

draft, submitted to Absolute Sound magazine

Folder 62: Perception of Sound, 1975

Date [inclusive]: 1975

General

draft with sections, submitted to Absolute Sound magazine

Folder 63: Perception of Sound, 1975

Date [inclusive]: 1975

General

draft

Folder 64: Measuring Sound, 1975

Date [inclusive]: 1975

General

draft presentation, submitted to Absolute Sound magazine

Folder 65: Distortion, 1977

Date [inclusive]: 1977

General

draft

Folder 66: Distortion, 1977

Date [inclusive]: 1977

General

draft

Folder 67: Fundamental Distortion, 1977

Date [inclusive]: 1977

General

draft

Folder 68: Fifty Years of Uncertainty, 1977

Date [inclusive]: 1977

General

final draft

Folder 69: Fifty Years of Uncertainty, 1977

Date [inclusive]: 1977

General

draft

Folder 70: Fifty Years of Uncertainty, 1977

Date [inclusive]: 1977

General

draft and background material

Folder 71: It's About Time, 1978

Date [inclusive]: 1978

General

handwritten draft and notes (against group delay)

Folder 72: Group Delay, 1978

Date [inclusive]: 1978

General

handwritten draft and notes

Folder 73: Energy, 1980

Date [inclusive]: 1980

General

final draft

Folder 74: Understanding Energy, 1980

Date [inclusive]: 1980

General

final draft

Folder 75: Energy and Observation, 1980

Date [inclusive]: 1980

General

handwritten draft and formulas

Folder 76: Energy Loss Through Storage, 1980

Date [inclusive]: 1980

General

final draft, submitted to Science magazine

Folder 77: Energy Loss Through Storage, 1980

Date [inclusive]: 1980

General

draft and notes

Folder 78: Geometric Viewpoints, 1980

Date [inclusive]: 1980

General

handwritten partial draft and notes

Folder 79: Signal Biased Amplification, (1980, 1983)

Date [bulk]: 1980, 1983

General

notes and transparencies

Folder 80: New Wave Audio Measurements, 1981

Date [inclusive]: 1981

General

draft

Folder 81: Noncommuting of Alternative Operators, 1981

Date [inclusive]: 1981

General

draft

Folder 82: The Energy Time Curve and Instantaneous Intensity, 1982

Date [inclusive]: 1982

General

handwritten draft

Folder 83: How to Handle An Equation, (1980s)

Date [bulk]: 1980s

General

handwritten draft

Box 5

Folder 1: Time Domain and Frequency Domain, (1980s)

Date [bulk]: 1980s

General

handwritten draft

Folder 2: Operators, (1980s)

Date [bulk]: 1980s

General

handwritten draft

Folder 3: Uncertainty Principle Principle of Alternatives, 1982-1983

Date [inclusive]: 1982-1983

General

draft

Folder 4: Alternatives, 1982-1983

Date [inclusive]: 1982-1983

General

handwritten draft and notes

Folder 5: Abstractions - Concepts, 1983

Date [inclusive]: 1983

General

handwritten draft

Folder 6: Alternatives in Quantum Theory, 1983

Date [inclusive]: 1983

General

final draft and correspondence to Prof. Feynman

Folder 7: Alternatives in Quantum Theory, 1983

Date [inclusive]: 1983

General

final draft

Folder 8: Alternatives in Quantum Theory, 1983

Date [inclusive]: 1983

General

draft and notes

Folder 9: Fundamentals of TDS (applied to medical use), 1983

Date [inclusive]: 1983

General

draft

Folder 10: Time Delay Spectrometry, 1984

Date [inclusive]: 1984

General

handwritten draft and notes

Folder 11: mathematical calculations re: intensity, 1985

Date [inclusive]: 1985

General

draft and calculations

Folder 12: intensity flow chart, 1985

Date [inclusive]: 1985

General

handwritten figures

Folder 13: table of digital audio history, 1985

Date [inclusive]: 1985

General

draft

Folder 14: material re: Chicago AES conference, 1986

Date [inclusive]: 1986

General

drafts, notes, graphics

Folder 15: Reverberation, 1986

Date [inclusive]: 1986

General

handwritten draft

Folder 16: Complex Time Representations, (1960s-1986)

Date [bulk]: 1960s-1986

General

final draft

Folder 17: Description of Quadrature Phase Tracking Receiver, (1960s-1986)

Date [bulk]: 1960s-1986

General

handwritten draft

Folder 18: Euclidean Riemannian Geometries, undated

Date [inclusive]: undated

General

draft

Folder 19: Geometry and Sound, undated

Date [inclusive]: undated

General

draft and notes

Folder 20: Geometry and Sound, undated

Date [inclusive]: undated

General

draft and notes

Folder 21: Hearing and Describing Sound, undated

Date [inclusive]: undated

General

handwritten draft

Folder 22: Mapping, undated

Date [inclusive]: undated

General

handwritten draft and notes

Folder 23: Mathematical Analysis, Preface, undated

Date [inclusive]: undated

General

partial draft

Folder 24: Number Theory, undated

Date [inclusive]: undated

General

draft

Folder 25: Number Theory, undated

Date [inclusive]: undated

General

draft

Folder 26: Patterns of Two, undated

Date [inclusive]: undated

General

final draft

Folder 27: Phase, undated

Date [inclusive]: undated

General

handwritten draft

Folder 28: Primitive Descriptors, undated

Date [inclusive]: undated

General

handwritten drafts

Folder 29: Time, undated

Date [inclusive]: undated

General

handwritten draft and notes

Folder 30: Audio Magazine: Time Delay Distortion, 1973

Date [inclusive]: 1973

General

final draft, for submission to Audio Magazine

Folder 31: Audio Magazine: The Great Pretender (group delay), 1979

Date [inclusive]: 1979

General

final draft, for submission to Audio Magazine

Folder 32: Audio Magazine: The Two Parts of Energy, 1979

Date [inclusive]: 1979

General

final draft, for submission to Audio Magazine

Folder 33: Audio Magazine: Hilbert Transform, 1979

Date [inclusive]: 1979

General

draft and notes, for submission to Audio Magazine

Folder 34: Audio Magazine: Fourier Transform, 1979

Date [inclusive]: 1979

General

draft and notes, for submission to Audio Magazine

Folder 35: Audio Magazine: a proposed series correspondence, 1983

Date [inclusive]: 1983

General

draft correspondence

Folder 36: Audio Magazine: proposed series: introduction to series, 1983

Date [inclusive]: 1983

General

handwritten draft

Folder 37: Audio Magazine: proposed series: chapters 1- 7,
1983

Date [inclusive]: 1983

General

final draft

Folder 38: Audio Magazine: proposed series: chapter 1 - TDS,
1983

Date [inclusive]: 1983

General

draft

Folder 39: Audio Magazine: proposed series: chapter 2 -
Measurement Listening, 1983

Date [inclusive]: 1983

General

draft

Folder 40: Audio Magazine: proposed series: chapter 3 -
Energy, 1983

Date [inclusive]: 1983

General

draft and notes

Folder 41: Audio Magazine: proposed series: chapter 4 -
Predictions of a Paradigm, 1983

Date [inclusive]: 1983

General

draft

Folder 42: Audio Magazine: proposed series: chapter 6 -
Measurement and Listening, 1983

Date [inclusive]: 1983

General

draft

Folder 43: Audio Magazine: proposed series: chapter 7 - The
Delay Plane and Time Delay Distortion, 1983

Date [inclusive]: 1983

General

draft

Folder 44: Audio Magazine: proposed series: chapter 8 - Stereo Reproduction, 1983

Date [inclusive]: 1983

General

draft

Folder 45: Audio Magazine: proposed series: chapter 9 - Geometry, 1983

Date [inclusive]: 1983

General

draft

Folder 46: Audio Magazine: proposed series: chapter 10 - Analogies, 1983

Date [inclusive]: 1983

General

draft

Folder 47: Audio Magazine: proposed series: chapter 11 - Conclusion, 1983

Date [inclusive]: 1983

General

draft

Folder 48: Audio Magazine: 'Loudspeaker Impedance Measurements' + correspondence, 1984

Date [inclusive]: 1984

General

draft and correspondence

Folder 49: Audio Magazine: Equipment Review: KHL 354, 1985

Date [inclusive]: 1985

General

notes and partial draft

Folder 50: Circuit drawings, 1977-1978

Date [inclusive]: 1977-1978

General

mixed drawings grouped together

Folder 51: Circuit panel drawings and information, 1977-1978

Date [inclusive]: 1977-1978

General

mixed drawings grouped together

Folder 52: Notes and drafts - various topics, 1983-1984

Date [inclusive]: 1983-1984

Folder 53: Notes, drafts, formulas - various topics, 1985-1986

Date [inclusive]: 1985-1986

Folder 54: Fragments: Notes, Graphs, Formulas, undated

Date [inclusive]: undated

Folder 55: Fragments: introduction, undated

Date [inclusive]: undated

Folder 56: Fragments: tone burst testing, undated

Date [inclusive]: undated

Folder 57: Fragments: circuit drawings, undated

Date [inclusive]: undated

Folder 58: Fragment: formula and fortran program, undated

Date [inclusive]: undated

Folder 59: Fragments: graphs with no titles, undated

Date [inclusive]: undated

Folder 60: Fragments: graphics, undated

Date [inclusive]: undated

Folder 61: Fragments: notes and drafts, undated

Date [inclusive]: undated

Folder 62: Fragments: notes and drafts, undated

Date [inclusive]: undated

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Series 3: Presentations and Talks, 1976-1986

Date [inclusive]: 1976-1986

About This Section

Contains prepared lectures and presentations. Arranged chronologically when date evident; followed by material that is undated.

Title/Description	Instances
-------------------	-----------

Box 6

Folder 1: It's a Great Day Tomorrow, 1976

Date [inclusive]: 1976

General

final draft, complete with slides

Folder 2: Geometry of Perception, 1977

Date [inclusive]: 1977

General

final draft

Folder 3: Geometry of Perception, 1977

Date [inclusive]: 1977

General

draft and notes

Folder 4: Geometry of Perception, 1977

Date [inclusive]: 1977

General

notes

Folder 5: Advanced Audio Measurements, 1979

Date [inclusive]: 1979

General

Bruel & Kjaer workshop, August, includes slides

Folder 6: Advanced Audio Measurements, 1979

Date [inclusive]: 1979

General

Bruel & Kjaer workshop, August, full copy with slides

Folder 7: Advanced Audio Measurements, 1979

Date [inclusive]: 1979

General

draft and slide notes

Folder 8: A New Approach to the Judgment of Quality of Audio
Reproduction, 1980

Date [inclusive]: 1980

General

final draft and slides, Fitzhugh W. Boggs Memorial
Lecture in Acoustics, April

Folder 9: Audio, 1980

Date [inclusive]: 1980

General

final draft and slides, California Institute of Technology,
Feb

Folder 10: Programming for the Home Entertainment
Marketplace, 1980

Date [inclusive]: 1980

General

final draft, University of CA Los Angeles (UCLA), May

Folder 11: New Paradigm

General

slides only, Syn-Aud-Con

Folder 12: Intensity, 1986

Date [inclusive]: 1986

General

handwritten draft, Alberta, Canada, June

Folder 13: Talk outline, undated

Date [inclusive]: undated

General

notes

Folder 14: Alternatives Principles, undated

Date [inclusive]: undated

General

handwritten draft

Folder 15: Audio - Subjective and Objective, undated

Date [inclusive]: undated

General

final draft

Folder 16: Audio - Subjective and Objective, undated

Date [inclusive]: undated

General

final draft, alternate version

Folder 17: Audio - Subjective and Objective, undated

Date [inclusive]: undated

General

slides only

Folder 18: Audio - Subjective and Objective, undated

Date [inclusive]: undated

General

transparencies only

Folder 19: Bows Arrows Sines Things, undated

Date [inclusive]: undated

General

handwritten draft

Folder 20: Definition Commutator Map, undated

Date [inclusive]: undated

General

slides

Folder 21: Energy, undated

Date [inclusive]: undated

General

slides

Folder 22: Energy Density, undated

Date [inclusive]: undated

General

slides

Folder 23: Geometry and Audio, undated

Date [inclusive]: undated

General

final draft

Folder 24: Geometry and Audio, undated

Date [inclusive]: undated

General

final draft, alternate version

Folder 25: Geometry and Audio, undated

Date [inclusive]: undated

General

final draft, alternate version

Folder 26: Group Delay/Instantaneous Frequency, undated

Date [inclusive]: undated

General

slides

Folder 27: History of Scientific Thought, undated

Date [inclusive]: undated

General

drafts, notes, and slides

Folder 28: Loudspeakers Distortion, undated

Date [inclusive]: undated

General

slides

Folder 29: Map Transform, undated

Date [inclusive]: undated

General

handwritten draft

Folder 30: Measuring Distortion of an Audio System, undated

Date [inclusive]: undated

General

final draft

Folder 31: Number Theory, undated

Date [inclusive]: undated

General

final draft and slides

Folder 32: Psychoacoustics, undated

Date [inclusive]: undated

General

final draft

Folder 33: Representation Distortion, undated

Date [inclusive]: undated

General

final draft

Folder 34: Response Sequence, undated

Date [inclusive]: undated

General

draft

Folder 35: Signal Processing, undated

Date [inclusive]: undated

General

slides

Folder 36: Time and Frequency, undated

Date [inclusive]: undated

General

final draft

Folder 37: Time Delay, undated

Date [inclusive]: undated

General

slides

Folder 38: Time Delay Spectrometry (TDS): Acoustical
Measurements of TDS, undated

Date [inclusive]: undated

General

draft and notes

Folder 39: TDS: Some Advanced Applications of TDS, undated

Date [inclusive]: undated

General

final draft

Folder 40: TDS, undated

Date [inclusive]: undated

General

slides

Folder 41: TDS, undated

Date [inclusive]: undated

General

slides

Folder 42: TDS, undated

Date [inclusive]: undated

General

slides

Folder 43: TDS, undated

Date [inclusive]: undated

General

slides

Folder 44: TDS, undated

Date [inclusive]: undated

General

slides

Folder 45: unknown lecture slides, undated

Date [inclusive]: undated

General

slides

Folder 46: unknown lecture slides, undated

Date [inclusive]: undated

General

mixed topic transparencies

Folder 47: Fragment: various topics, undated

Date [inclusive]: undated

General

notes on various topics

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Series 4: Patents Time Energy Frequency (TEF), 1964-1986

Date [inclusive]: 1964-1986

About This Section

Contains material related to his inventions. The first subseries holds material about his patents including correspondence and draft filings. The second subseries holds material related to Time Energy Frequency (TEF), one of his inventions.

Sub-Series 4.1: Patents

About This Section

material related to patent applications

Title/Description	Instances
-------------------	-----------

Box 7

Folder 1: Balanced Transistor Power Amplifier Connected in a Bridge Configuration, March 10, 1964

Date [inclusive]: March 10, 1964

General

US Patent Office, photocopy

Folder 2: Time Delay Spectrometer, September 9, 1969

Date [inclusive]: September 9, 1969

General

US Patent Office, photocopy

Folder 3: Temperature Control System with a Pulse Width Modulated Bridge, May 15, 1973

Date [inclusive]: May 15, 1973

General

US Patent Office, photocopy

Folder 4: Medical Tomography System Using Ultrasound Transmission, April 11, 1978

Date [inclusive]: April 11, 1978

General

US Patent Office, photocopy

Folder 5: Method and Apparatus for Shaping and Aiming Narrow Beams, October 24, 1980

Date [inclusive]: October 24, 1980

General

European Patent Office, photocopy

Folder 6: Method and Apparatus for Delay Analysis of Energy Transmitted Through a Medium, July 14, 1981

Date [inclusive]: July 14, 1981

General

US Patent Office, photocopy

Folder 7: Method and Apparatus for Shaping and Aiming Narrow Beams, July 14, 1981

Date [inclusive]: July 14, 1981

General

US Patent Office, photocopy

Folder 8: Correspondence re: Temperature Control System with a Pulse Width Modulated Bridge, 1970

Date [inclusive]: 1970

General

correspondence and drafts

Folder 9: Correspondence re: TDS, 1979

Date [inclusive]: 1979

General

correspondence and drafts

Folder 10: Correspondence re: Method for Shaping and Aiming Narrow Beams, 1979

Date [inclusive]: 1979

General

correspondence and drafts

Folder 11: Correspondence re: Method and Apparatus for Delay Analysis of Energy Transmitted Through a Medium, 1980

Date [inclusive]: 1980

General

correspondence and drafts

Folder 12: Correspondence re: Apparatus and Method for Detection Using the Analytic Signal, 1986

Date [inclusive]: 1986

General

correspondence and drafts

Folder 13: Spectrosonex Inc, 1985-1986

Date [inclusive]: 1985-1986

General

invention assigned to the company

Folder 14: Spectrosonex Inc: Patent Disclosures: Method of Transmission of Multiple Signals for TDS, 1986

Date [inclusive]: 1986

General

CONFIDENTIAL

Folder 15: Spectrosonex Inc: Patent Disclosures: Method and Apparatus of Detection of Spacial or Temporal Change, 1986

Date [inclusive]: 1986

General

CONFIDENTIAL

Folder 16: Spectrosonex Inc: patent copies, 1986

Date [inclusive]: 1986

General

patent copies, other inventions

Folder 17: Spectrosonex Inc: Patent Disclosures: Mthod and Apparatus for Enhancing Resolution in an Imaging System, 1986

Date [inclusive]: 1986

General

CONFIDENTIAL

Folder 18: Spectrosonex Inc: patent copies, 1986

Date [inclusive]: 1986

General

patent copies, other inventions

Sub-Series 4.2: Time Energy Frequency (TEF)

About This Section

Information about his invention, TEF, workshops, schematics, workbooks, and code

Title/Description

Instances

Box 7

Folder 19: Syn-Aud-Con: Workshop Presentation, 1979

Date [inclusive]: 1979

General

draft and notes

Folder 20: Syn-Aud-Con: TEF Signal Blocks schema, 1979

Date [inclusive]: 1979

General

drawing and notes

Folder 21: Syn-Aud-Con: Presentation, 1979

Date [inclusive]: 1979

General

slides

Folder 22: Syn-Aud-Con: TEF 10 Machine, 1979

Date [inclusive]: 1979

General

presentation slides, not in order

Folder 23: Syn-Aud-Con: TEF 10 Machine, 1979

Date [inclusive]: 1979

General

presentation slides, in order

Folder 24: Syn-Aud-Con: Workshop Certificate and
Announcement, 1979

Date [inclusive]: 1979

Folder 25: TEF machine schematic, 1983

Date [inclusive]: 1983

General

handwritten drawing

Folder 26: TEF Description of Variables, 1983

Date [inclusive]: 1983

General

draft and notes

Folder 27: TEF Programming notes, 1983

Date [inclusive]: 1983

General

handwritten draft

Folder 28: TEF notes, 1983-1984

Date [inclusive]: 1983-1984

General

handwritten

Folder 29: TEF Setup Instructions, 1984

Date [inclusive]: 1984

General

draft and notes

Folder 30: TEF Software Overview, 1984

Date [inclusive]: 1984

General

draft and notes

Folder 31: TEF - Special Functions Disc correspondence,
1984

Date [inclusive]: 1984

General

photocopy from Heyser

Folder 32: TEF Special Functions Disc, 1984

Date [inclusive]: 1984

General

notebook diary

Folder 33: TEF Special Functions Disc, 1984

Date [inclusive]: 1984

General

handwritten notes and draft

Folder 34: TEF Cursor Mode, 1984

Date [inclusive]: 1984

General

handwritten notes and draft

Folder 35: Crown Notebook: notes, 1983

Date [inclusive]: 1983

General

handwritten notes and draft

Folder 36: Crown Notebook: Ports Document, 1983

Date [inclusive]: 1983

General

author, Gerald Stanley

Folder 37: Crown Notebook: Filedoc and Datadoc Section,
1983

Date [inclusive]: 1983

General

author, Gerald Stanley

Folder 38: Crown Notebook: Software Overview, 1983

Date [inclusive]: 1983

General

author, Gerald Stanley

Folder 39: Crown Notebook: Major Overlays, 1983

Date [inclusive]: 1983

General

author, Gerald Stanley

Folder 40: Crown Notebook: Assembly Source, 1983

Date [inclusive]: 1983

General

author, Gerald Stanley

Folder 41: Crown Notebook: TEF, 1983

Date [inclusive]: 1983

General

author, Gerald Stanley

Folder 42: Crown Manual, 1984

Date [inclusive]: 1984

General

draft

Folder 43: TDS and TEF Summary, 1984

Date [inclusive]: 1984

General

handwritten draft

Box 8

Folder 1: TEF Code Print Out: Section 1, 1983

Date [inclusive]: 1983

Folder 2: TEF Code Print Out: Section 1, 1983

Date [inclusive]: 1983

Folder 3: TEF Code Print Out: Section 1, 1983

Date [inclusive]: 1983

Folder 4: TEF Code Print Out: Section 1, 1983

Date [inclusive]: 1983

Folder 5: TEF Code Print Out: Section 3, 1983

Date [inclusive]: 1983

Folder 6: TEF Code Print Out: Section 3, 1983

Date [inclusive]: 1983

Folder 7: TEF Code Print Out: Section 3, 1983

Date [inclusive]: 1983

Folder 8: TEF Code Print Out: Section 3, 1983

Date [inclusive]: 1983

Folder 9: TEF Code Print Out: Section 3, 1983

Date [inclusive]: 1983

Folder 10: TEF Code Print Out: Section 4, 1983

Date [inclusive]: 1983

Folder 11: TEF Code Print Out: Section 4, 1983

Date [inclusive]: 1983

Folder 12: TEF Code Print Out: Section 4, 1983

Date [inclusive]: 1983

Folder 13: TEF Code Print Out: Section 4, 1983

Date [inclusive]: 1983

Folder 14: TEF Source Code, 1983

Date [inclusive]: 1983

Folder 15: TEF Code Print Out, 1983

Date [inclusive]: 1983

Folder 16: TEF: Sample Measurements, not documented, 1983

Date [inclusive]: 1983

Folder 17: TEF: Sample Measurements, documented, 1983

Date [inclusive]: 1983

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Series 5: Personal Papers, 1904-1980

Date [inclusive]: 1904-1980

About This Section

Contains four subseries: schoolwork, items found inside books, manuals, and book collection

Sub-Series 5.1: Schoolwork

About This Section

Material relating to his schoolwork at University of Arizona and California Institute of Technology

Title/Description	Instances
Box 9	
Folder 1: Surveying Field notebook, 1950-1951 <u>Date [inclusive]:</u> 1950-1951	
General	
handwritten note pad	
Folder 2: Qualitative Analysis, 1952 <u>Date [inclusive]:</u> 1952	
General	
handwritten notebook	
Folder 3: Electrical Engineering 170a, 1953 <u>Date [inclusive]:</u> 1953	
General	
CA Institute of Technology, coursework	
Folder 4: Electrical Engineering 170a, 1953 <u>Date [inclusive]:</u> 1953	
General	
CA Institute of Technology, coursework	
Folder 5: Electrical Engineering 180a, 1953 <u>Date [inclusive]:</u> 1953	
General	
CA Institute of Technology, coursework	
Folder 6: Electrical Engineering 180a, 1953 <u>Date [inclusive]:</u> 1953	

General

CA Institute of Technology, coursework

Folder 7: Time and Frequency Analysis, 1954

Date [inclusive]: 1954

General

coursework

Folder 8: Course Notes for Circuit Analysis/ WH Pickering
and W Ward, 1954

Date [inclusive]: 1954

General

coursework

Folder 9: Class notes, 1955

Date [inclusive]: 1955

Folder 10: Electrical Engineering 190, 1955

Date [inclusive]: 1955

General

coursework

Folder 11: Math notebook, 1955

Date [inclusive]: 1955

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handwritten notebook

Folder 12: Physics 131b, 1955

Date [inclusive]: 1955

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coursework

Folder 13: Physics 129a - RP Feynman, 1955

Date [inclusive]: 1955

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handwritten notebook

Folder 14: Transistor Electronics, 1955

Date [inclusive]: 1955

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coursework

Folder 15: Transistor Electronics, 1955

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coursework

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Folder 1: Latin Book 1

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Folder 3: Latin Book 1

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Folder 14: Latin Book 2

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Folder 15: Latin Book 2

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Folder 16: Latin Book 2

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Folder 17: Latin Book 2

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Folder 18: Latin Book 2

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Folder 19: Latin Book 2

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Folder 21: Adventures in World Literature

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Between p.292-293

Folder 22: Adventures in World Literature

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Folder 23: Adventures in World Literature

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Folder 24: Adventures in World Literature

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Folder 25: Adventures in World Literature

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Between p.1082-1083

Folder 26: Adventures in World Literature

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Folder 27: Adventures in World Literature

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Between p.1140-1141

Folder 28: Adventures in World Literature

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Between p.1150-1151

Folder 29: Learning to Write in College

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Folder 30: Learning to Write in College

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Folder 43: Advanced Algebra

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Folder 58: First Course in Algebra

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Folder 70: Advanced Calculus

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Interpolation, Finite Differences, Numerical Integration, and
Curve Fitting

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Between p.246-247

Folder 73: An Elementary Treatise on Differential Equations

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Folder 74: Plane and Solid Analytic Geometry

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Between p.66-67

Folder 75: Plane and Solid Analytic Geometry

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Folder 83: Plane and Solid Analytic Geometry

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Folder 84: Technical Descriptive Geometry

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Folder 85: Technical Descriptive Geometry

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Folder 88: Plane Trigonometry

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Folder 89: Plane Trigonometry

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Folder 90: Plane Trigonometry

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Folder 91: Plane Trigonometry

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Folder 92: Trigonometry: Plane and Spherical with Tables

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Folder 102: Trigonometry: Plane and Spherical with Tables

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Folder 149: Electrical Engineering Experiments: Theory and Practice

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Folder 155: Electrons and Holes in Semiconductors with Applications to Transistor Electronics

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Folder 157: Electronic Semiconductors

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Folder 158: Electronic Semiconductors

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Folder 159: Electronic Semiconductors

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Folder 160: Basic Electrical Measurements

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Folder 161: Basic Electrical Measurements

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Folder 275: Getting a Living: The Foundations of Economic Society

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Sub-Series 5.3: Manuals and Publications

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Small collection of manuals and printed matter

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Folder 295: Symposium on Auditory Perspective, 1953 <u>Date [inclusive]:</u> 1953	
General publication	
Folder 296: Basic Principles of Stereophonic Sound/William Snow, 1953 <u>Date [inclusive]:</u> 1953	
General publication	
Folder 297: Loudspeaker Testing Using Digital Techniques/ KEF Electronics, 1975 <u>Date [inclusive]:</u> 1975	
General publication	
Folder 298: LF Converter Type RA 137B, 1960 <u>Date [inclusive]:</u> 1960	
General manual	
Folder 299: Dual Beam Oscilloscope Type 551- Instructions, 1969 <u>Date [inclusive]:</u> 1969	

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Folder 300: Measurement Set-Ups for Time Delay
Spectrometry and a Few Typical Applications/B, (1980s)

Date [bulk]: 1980s

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Item 3: Advanced Algebra, 1947 <u>Date [inclusive]</u> : 1947	
Item 4: Advanced Antenna Theory, 1952 <u>Date [inclusive]</u> : 1952	
Item 5: Advanced Calculus, 1947 <u>Date [inclusive]</u> : 1947	
Item 6: Adventures in English Literature, 1947 <u>Date [inclusive]</u> : 1947	
Item 7: Adventures in World Literature, 1947 <u>Date [inclusive]</u> : 1947	
Item 8: Alternating Current Machines, 1949 <u>Date [inclusive]</u> : 1949	
Item 9: American Writers, 1946 <u>Date [inclusive]</u> : 1946	
Item 10: An American English Grammar, 1948 <u>Date [inclusive]</u> : 1948	
Item 11: An Elementary Treatise on Differential Equations, 1933	

Date [inclusive]: 1933

Item 12: Analytical Mechanics for Engineers, 1948

Date [inclusive]: 1948

Item 13: Audio Measurements, 1958

Date [inclusive]: 1958

Item 14: Basic Electrical Measurements, 1950

Date [inclusive]: 1950

Item 15: Conductance Design of Active Circuits, 1959

Date [inclusive]: 1959

Item 16: Direct-Current Machinery, 1949

Date [inclusive]: 1949

Item 17: Disk Recording; Volume 2; Disk Playback and Testing;
An anthology of articles on disk recording from the pages of
the Journal of the Audio Engineering Society Vol. 1-Vol. 28
(1953-1980), 1981

Date [inclusive]: 1981

Item 18: Electrical Engineering Experiments: Theory and
Practice, 1949

Date [inclusive]: 1949

Item 19: Electronic Fundamentals and Applications, 1950

Date [inclusive]: 1950

Item 20: Electronic Semiconductors, 1958

Date [inclusive]: 1958

Item 21: Electrons and Holes in Semiconductors with
Applications to Transistor Electronics, 1954

Date [inclusive]: 1954

Item 22: Elements of Radio, 1945

Date [inclusive]: 1945

Item 23: Engineering Drawing: Practice and Theory, 1947

Date [inclusive]: 1947

Item 24: Engineering Economy, 1950

Date [inclusive]: 1950

Item 25: Engineering Materials and Processes: Metals and
Plastics, 1949

Date [inclusive]: 1949

Item 26: Engineering Mechanics, 1950

Date [inclusive]: 1950

Item 27: Fields and Waves in Modern Radio, 1952

Date [inclusive]: 1952

Item 28: First Course in Algebra, 1935

Date [inclusive]: 1935

Item 29: Fluid Mechanics, 1951

Date [inclusive]: 1951

Item 30: Fundamentals of Symbolic Logic, 1954

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