

Photographs and published papers relating to the Hartree Differential Analyser

Archival reference code: YA2002.17

Title: Photographs and published papers relating to the Hartree Differential Analyser

Dates: 1948-1961

Level: fonds

Extent: 0.8 linear metres

Creator: Butler, Ron

Administrative/biographical history:

Dr Ron Butler was a mathematician who worked with Professor Hartree on the development of Hartree's Differential Analyser between 1944 and 1948.

Dr Butler worked on problems associated with flying bombs during the Second World War. After the war, Dr Butler moved to the National Physical Laboratory to continue working with Professor Hartree on the Differential Analyser.

Scope and Content: A collection of papers, books, photographic prints and glass plate negatives of the machine when it was in use at the University of Manchester.

The two books are:

Crank, J. The Differential Analyser. Longmans. London. (1947)

Hartree, Douglas. Calculating Instruments and Machines. The University of Illinois Press. Urbana. (1949)

Related people and institutions:

Butler, Ron

Hartree, Douglas Raynor

Immediate source of acquisition or transfer:

Butler, Dr Ron Ph.D (Gift)

Archival history:

Donor Dr Ron Butler worked with Professor Hartree from around 1944 to 1948, and continued to work with the Hartree Differential Analyser in the postwar years. These were his records of the machine.

Conditions covering access:

Open access.

Conditions governing reproduction:

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Language:

English

German

Reference number: YA2002.17/1

Level: item

Title: Theory of The Harmonic Analyser

Dates:

Scope and Content: Typed and handwritten manuscript translation of G Coradi's paper entitled 'Der Harmonische Analysator' published in 1894

Related people and institutions:

Hartree, Douglas Raynor

Reference number: YA2002.17/2

Level: item

Title: Der Harmonische Analysator

Dates: 1894

Scope and Content:

Creator(s): Coradi, G

Related people and institutions:

Hartree, Douglas Raynor

Reference number: YA2002.17/3

Level: item

Title: Der Harmonische Analysator, 1894

Dates: 1894

Scope and Content:

Creator(s): Coradi, G
Related people and institutions: Hartree, Douglas Raynor

Reference number: YA2002.17/4

Level: item

Title: Die Planimeter Coradi (System Hohmann-Coradi und Lang-Coradi)

Dates: 1901

Scope and Content:

Creator(s): Coradi, G

Related people and institutions:

Hartree, Douglas Raynor

Reference number: YA2002.17/5

Level: item

Title: Central Projection and Stereoscopic Diagrams on the Differential Analyser

Dates: 1950

Scope and Content:

Creator(s): Curtis, A R

Related people and institutions:

Hartree, Douglas Raynor

Reference number: YA2002.17/6

Level: item

Title: Norges Teknisk-Naturvitenskapelige Forskningsrad, Utvalg For Matematikkmaskiner Rapport Nr.3, Eberhart Jensen, Differensialanalysatoren Ved Astrofysisk Institutt

Dates: 1951

Scope and Content:

Creator(s): Jensen, Eberhart

Related people and institutions: Hartree, Douglas Raynor

Reference number: YA2002.17/7

Level: item

Title: Proceedings of The Institution of Mechanical Engineers. A Theoretical Analysis of The Response of a Loaded Hydraulic Relay

Dates: 1959

Scope and Content:

Creator(s): Butler, Ron

Related people and institutions: Hartree, Douglas Raynor

Reference number: YA2002.17/8

Level: item

Title: Close image of part of the Manchester Differential Analyser

Dates:

Scope and Content:

Creator(s):

Related people and institutions: Hartree, Douglas Raynor

Reference number: YA2002.17/9

Level: item

Title: Image of the Manchester Differential Analyser

Dates:

Scope and Content:

Creator(s):

Related people and institutions: Hartree, Douglas Raynor

Reference number: YA2002.17/10

Level: item

Title: Close image of part of the Manchester Differential Analyser

Dates:

Related people and institutions:

Hartree, Douglas Raynor

Reference number: YA2002.17/11

Level: item

Title: Image of the Manchester Differential Analyser

Dates:

Scope and Content:

Creator(s):

Related people and institutions:

Hartree, Douglas Raynor

Reference number: YA2002.17/12

Level: item

Title: Ministry of Supply, Permanent Records of Research And Development, Differential Analyser, Monograph No.17-502, 1949

Dates:

Scope and Content: Published report, edited by Professor Hartree, giving a survey of the work carried out between September 1939 and November 1945 by the group of people involved in the development of the analyser at the University of Manchester.

Creator(s):

Related people and institutions: Ministry of Supply

Reference number: YA2002.17/13

Level: item

Title: Douglas R Hartree, Calculating Instruments and Machines, The University of Illinois Press 1949

Dates: 1949

Scope and Content:

Creator(s):

Hartree, Douglas Raynor

Related people and institutions:

The University of Illinois Press

Reference number: YA2002.17/14

Level: item

Title: J. Crank, The Differential Analyser, Longmans, Green & Co, 1947

Dates: 1947

Scope and Content:

Creator(s):

Crank, J

Related people and institutions:

Longman Group Ltd

Reference number: YA2002.17/15

Level: item

Title: Negatives D.A., Glass Slides of the Differential Analyser, c.1949

Dates: c1939-1949

Scope and Content: Small number of glass slides of the analyser and illustrations

Creator(s):

Hartree, Douglas Raynor

Related people and institutions:

Reference number: YA2002.17/16

Level: item

Title: Glass, Mr Michael, c.1949

Dates: c1939-1949

Scope and Content: A number of lantern slides, photographic prints of various analysers and a small number of documents.

Creator(s):

Hartree, Douglas Raynor

Related people and institutions:

Reference number: YA2002.17/17

Level: item

Title: Glass Lantern Slides of various Analysers, c.1949

Dates: c1939-1949

Scope and Content: A number of lantern slides of various Differential Analysers

Creator(s):

Hartree, Douglas Raynor

Related people and institutions:

Reference number: YA2002.17/18

Level: item

Title: Mr Michel, Maths c.1949

Dates: c1939-1949

Scope and Content: A number of lantern slides of various Differential Analysers

Creator(s):

Hartree, Douglas Raynor

Related people and institutions:

Michel, J G L

Reference number: YA2002.17/19

Level: item

Title: Photographic prints of Differential Analyser

Dates: c1939-1949

Scope and Content: Copies taken from various lantern slides

Creator(s):

Hartree, Douglas Raynor

Related people and institutions: