

TEKST NR 14

1979

BOOKS ABOUT MATHEMATICS:

**History, Philosophy, Education,
Models, System Theory,
and Works of Reference etc.**

A BIBLIOGRAPHY.

By Else Høyrup.

TEKSTER fra

IMFUFA

**ROSKILDE UNIVERSITETSCENTER
INSTITUT FOR STUDIET AF MATEMATIK OG FYSIK SAMT DERES
FUNKTIONER I UNDERVISNING, FORSKNING OG ANVENDELSER**

-
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Anne Jensen, Marianne Kesselhahn, Lena Lindenskov og Nicolai Lomholt.
Vejleder: Anders Madsen.
- 2/78 "OPTIMERING" - Menneskets forøgede beherskelsesmuligheder af natur og samfund.
Projektrapport af Tom J. Andersen, Tommy R. Andersen, Gert Kreinø og
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Lasse Rasmussen, Aage Bonde Kræmmer, Jens Højgaard Jensen.
- 4/78 "Tre essays" - om matematikundervisning, matematiklæreruddannelsen og
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Mogens Niss.
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Helge Kragh.
- 6/78 "Nogle artikler og debatindlæg om - læreruddannelse og undervisning i fysik,
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B.V. Gnedenko.
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Peder Voetmann Christiansen.
- 9/78 "OM PRAKSIS' INDFLYDELSE PÅ MATEMATIKKENS UDVIKLING"
Motiver til Kepler's: "Nova Stereometria Doliorum Vinariorum"
Projektrapport af Lasse Rasmussen.
Vejleder: Anders Madsen.
-
- 10/79 "TERMODYNAMIK I GYMNASIET"
Projektrapport af Jan Christensen og Jeanne Mortensen
Vejledere: Karin Beyer og Peder Voetmann Christiansen.
- 11/79 "STATISTISKE MATERIALER"
red. Jørgen Larsen.
- 12/79 "Lineære differentialligninger og differentialligningssystemer"
Mogens Brun Heefelt.
- 13/79 "CAVENDISH'S FORSØG I GYMNASIET". Projektrapport af Gert Kreinø.
Vejleder: Albert Chr. Paulsen.
- 14/79 "Books about Mathematics: History, Philosophy, Education, Models, System
Theory, and Works of Reference etc. A Bibliography".
Else Høyrup.

BOOKS ABOUT MATHEMATICS:

**History, Philosophy, Education,
Models, System Theory,
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A BIBLIOGRAPHY.

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PREFACE

The content of this bibliography is books ABOUT mathematics (which are difficult to survey) and not "technical" textbooks or research monographs on mathematics (which are more easy to find in ordinary mathematics libraries). Which groups are covered can be seen in the contents and how the groups are covered can be seen by looking at possible comments in the beginning of a group. Because the bibliography covers so many different topics, it only (with a few exceptions) covers books, and not articles or reports.

The purpose of the bibliography is two-fold:

- 1) to help with the building up of good mathematics libraries, which cover not only "technical" mathematics books, and
- 2) to give reference material in special fields for individuals.

The origin of the bibliography comes from my own professional interests: As a mathematician who has also worked with the subjects "mathematics and society" (see p.66) and "women and mathematics" (see p.71) - and as research librarian in mathematics at a new Danish university, where the mathematics profile is much directed towards the subjects covered in this bibliography. So I shall use this bibliography in my own work of building up a good mathematics library, but I hope that it can also be of help to other persons.

In August 1978 there was a workshop "Mathematics and the Real World" at Roskilde University Center, Denmark, where I had a small exhibition of "about"-books, and here the idea was conceived that I should make a bibliography of "about"-books. The bibliography is made in two versions: a small one for the Proceedings from the workshop, which will be published by Birkhäuser Verlag in 1979, and this larger one.

I have found the titles from the following sources:

- 1) Books in the libraries of individuals and universities
- 2) Bibliographies
- 3) Mentions in journals (unfortunately not so much used because of time pressure)
- 4) Catalogues from publishers
- 5) "Books in Print"s from different countries.

The size of the bibliography is rather large (about 1400 titles), but the bibliography is of course not comprehensive in the subjects covered. The limits have been time and the systematic. There are so many topics covered that it has been impossible to be an expert in all topics, and therefore there may be problems in the selection of books and in the classification of the material.

The bibliography is almost not annotated because of the extent of the subjects covered and time problems (I have not had time to get and look over all the books).

I have chosen not to repeat titles and this of course gives rise to classification problems. But I have used cross-references in the beginning of some groups.

Because of the language orientation of Denmark and the type of books, most titles are in English. Some are in German or French and a few are in Scandinavian languages (with English translations of titles).

I have tried to give rather much technical information about the books:

- 1) If it is possible for me, I mention date and sometimes town of early editions (not necessarily the first edition).
- 2) With a few exceptions I mention town, publisher and date of the latest edition I know of (not necessarily the latest edition). (When I mention "reprint", I do not mention of which edition).
- 3) Often a possible series title is mentioned and sometimes there are notes about translations.

In some groups most books are new and still available from the publishers. In other groups (for instance history, philosophy and recreational mathematics) many books are old and out of print, but sometimes reprints are made.

More titles (also reports and articles) in these subjects are welcome - also in other languages than English.

Else Høyrup, February 1979.

PART I

**History and Philosophy of
Mathematics and
Mathematics Education etc.**

1. HISTORY OF MATHEMATICS

1.1 HISTORY OF MATHEMATICS IN GENERAL

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The Study of the History of Mathematics and The Study of the
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ISIS Cumulative Bibliography 1913-65. A Bibliography of the
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Vol.1: Personalities A-J

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Vol.3: Subjects

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1.2 SPECIAL EPOCHS AND CULTURES

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1.2.1 Ancient Near East

See also 1.2.2 Classical Antiquity.

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La marquise du Châtelet, amie de Voltaire.

Paris: Hachette, 1930.

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Germain, Sophie:

Oeuvres philosophiques de Sophie Germain. Suivies de Pensées et de Lettres Inédites et précédées d'une Etude sur sa Vie et ses Oeuvres par H.Stupuy.

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6.2.3 P.Y.Kochina

Kochina, P.Ya:

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6.2.4 Sonia Kovalevskaya

Kovalevskaya, Sonia:

Biography and Autobiography. 2 parts. I: Memoir, by Anna C.

Leffler. II: Reminiscences of Childhood written by herself.

London: Walter Scott, 1895. A new edition of the autobiography is: "A Russian Childhood. With an Analysis of Kovalevskaya's Mathematics by P.Y.Kochina". Berlin: Springer, 1979.

Polubarinova-Kochina, P:

Sophia Vasilievna Kovalevskaya.

Moscow: Foreign Languages Publishing House, 1957.

6.2.5 Ada Lovelace

Moore, Doris Langley:

Ada, Countess of Lovelace: Byron's Legitimate Daughter.
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Dick, Auguste:

Emmy Noether, 1882-1935.
Basel: Birkhäuser Verlag, 1970.

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Use and Abuse of Statistics.

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San Francisco: Holden-Day, 1968.

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New York: Dover, 1937, 1964.

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PART III.

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See also I.1.1.1 History of mathematics in general, Works of reference.

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