



Afd./Medarb.

eb

|Dato

30.10.80

|J.nr.

Modtager/Emne

Til oh, ds, klc, bk, jr, kk, cjj, ar, MUS
evt til fredagsmøde
Materiale på engelsk om vores edb

Vedlagte paper havde jeg med til en konference i Prag om "Automation of national bibliographies".

Det er en ajourført udgave af et tidligere paper, der hed "Cataloguing for a computer database at Bibliotekscentralen".

Med henblik på det særlige formål har papiret nu fået en drejning, så det er centreret omkring Bogfortegnelsen.

Til andre formål kan andre indfaldsvinkler måske være mere hensigtsmæssige.

Med henblik på at få lavet en beskrivelse af vores edb, der kan bruges til engelske gæster og (i oversættelse) også til danske, sender jeg en kopi til udtalelse.

Hvilke papirer har vi brug for: ét om inddatering og et andet om produkterne?

Den nævnte konference var ret "teknisk". Derfor har jeg med vilje gjort papiret ret fyldigt m h t tekniske detaljer. Er det for meget?

Skal der gøres mere ud af inddatering i andre afdelinger end Bogfortegnelsen? Eller skal MUS f.eks. have sit eget papir (jf. PST's planlagte artikel til "Musikbiblioteket").

eb



THE AUTOMATION OF THE DANISH NATIONAL BIBLIOGRAPHY
(*Dansk Bogfortegnelse*)

Biblioteks-
centralen

Dansk Bogfortegnelse is compiled and published
by *Bibliotekscentralen*.

Bibliotekscentralen is a self-governing biblio-
graphic agency and publisher of catalogues, bib-
liographies, printed cards, and processing slips
for libraries.

The biblio-
graphic
database

Automated systems were introduced in 1974. The
central node of these systems is the *bibliograph-
ic database*.

The automated production of *Dansk Bogfortegnelse*
started in 1976. The national bibliographic data
for all Danish books published since then have
been put into the database (about 12,000 records
per year), and programs have been written for the
production of the various editions of *Dansk Bog-
fortegnelse*, based on records extracted from the
database.

The database comprises not only the current Dan-
ish book production, but also records of foreign
books acquired by the public libraries in Denmark
and of some retrospective catalogue data which
are used for various standard and union catalog-
ues published by Bibliotekscentralen.

The database at present comprises about 250,000
records.

What the records
are used for

The records created for *Dansk Bogfortegnelse* are
also used for the following catalogues and bib-
liographies:

Printed cards for libraries

Processing slips for libraries

Standard catalogue of non-fiction for libraries

cont'd

Standard catalogue for children's libraries
Standard catalogue for school libraries
Catalogue for Copenhagen Public Library (*microfilm*)
Catalogue for Ølstykke Public Library (*microfilm*)
(pilot automation project)

For some of these products extra fields are added which are not included in the national bibliography, e.g. special notes for children's books.

A magnetic tape with the national bibliographic data is sent weekly to the computer centre of the Danish national and academic libraries, including the legal deposit libraries.

The re-use of records for many different products is most important for the economy of the system.

AUTOMATION PROJECT FOR DANISH PUBLIC LIBRARIES

The bibliographic database is intended to be the central feature of an integrated automation project for the public libraries of Denmark. It is the intention that catalogue data on all materials of these libraries shall be put into the database and that also the holdings of the individual libraries shall be converted into machine-readable form.

The project comprises computer-produced catalogues for the individual libraries, automated acquisitions control and circulation control.

STANDARDS

Cataloguing rules based on the Anglo-American Rules.

Classification code: Danish version of Dewey Decimal Classification.

ISBN (Standard Book Numbering System)

"danMARC" format for the structure of the records in the database.

THE *danMARC* RECORD FORMAT

The first software used for creating records and tapes for catalogue production was bought in England in 1973. It was the same software as was used for the *British National Bibliography*.

It was quite natural, therefore, that the structure of the records was the same as that used by BNB (the *UKMARC format*). The BNB software is not used anymore, but the basic features of the *UKMARC* format are kept in the format used today.

Most records created for Bibliotekscentralen's database are used for several purposes. During cataloguing some fields are added which are not used in the national bibliography, but only for printed cards and other library catalogues. Other such fields are added at a later stage (e.g. notes for children's books).

Indicators

The format must therefore contain indicators signaling that a specific field is to be used for one specific type of catalogue, but not for another.

Analytics and non-book materials

The format has also been expanded to contain analytical fields (which are mostly used for music and records) and to cover non-book materials.

Repeat codes

For analytics, the field repeat code is used to link together different fields relating to the same part of the publication (author, title, Dewey number etc.) The fields relating to the same part all have the same repeat code which is kept in the directory. (One digit has been "stolen" from the start address of the fields for this purpose).

The same fields can be used both for a contents note and as headings for the analytical entries.

A record may contain up to 68 repeats of a field, but the maximum record size is 4092 characters (= block-size-4). Another database is used for the indexing of articles in journals, newspapers, and books.

In a database used for a national bibliography it is necessary to create a record for each volume of a multi-volume publication. This is also necessary when the record is to be used for circulation control.

Such records contain both the information that is specific to the individual volume and the data that are common to all volumes.

When all volumes are presented in a printed bibliography or catalogue, the common fields are printed only from the first record and omitted from the following (*two-level description*). The distinction between common fields and volume-specific fields is done by indicators. But the method demands that common data are 100 per cent identical in all records. Otherwise they will not be omitted.

This might easily become a major problem for the input work, but Bibliotekscentralen's input system offers help in that it is possible to create a record for a new volume by copying an existing record, only changing the data that are different. The common data are copied in exactly identical form into the new record.

Nevertheless, the danMARC format prescribes another method to be used for multi-volume publications (and records for individual volumes of serials as well). According to this method the records for the individual volumes shall contain only the specific fields whereas the common information is held in a separate record. This method, however, has not yet been implemented for Bibliotekscentralen's database.

*Main entry for a two-volume
publication in the Danish
National Bibliography*

Jyske Historier og Vers. - Kbh. (Islebrovej
31, 2700 Bronshøj) : J. Wessel Westli,
1977-. - bind. - DC 86.77-04.

Genoptryk af gamle jyske historier og
vers på jysk.

[Bind] 1. - 1977. - 32 sider : ill. : 21 cm.

Indhold: Fritz Reuter: Hvadant en
Glaskaret blow te e Pibhue. Johanne
Cathrine Boggild: Oversvømmelsen i
Aarhus i Aaret 1860. C. Sørensen
Thomaskjær: Niels Kallskinds Kjobin-
hawnsrejs.

Hf. : kr 14.95 net. 5182158*

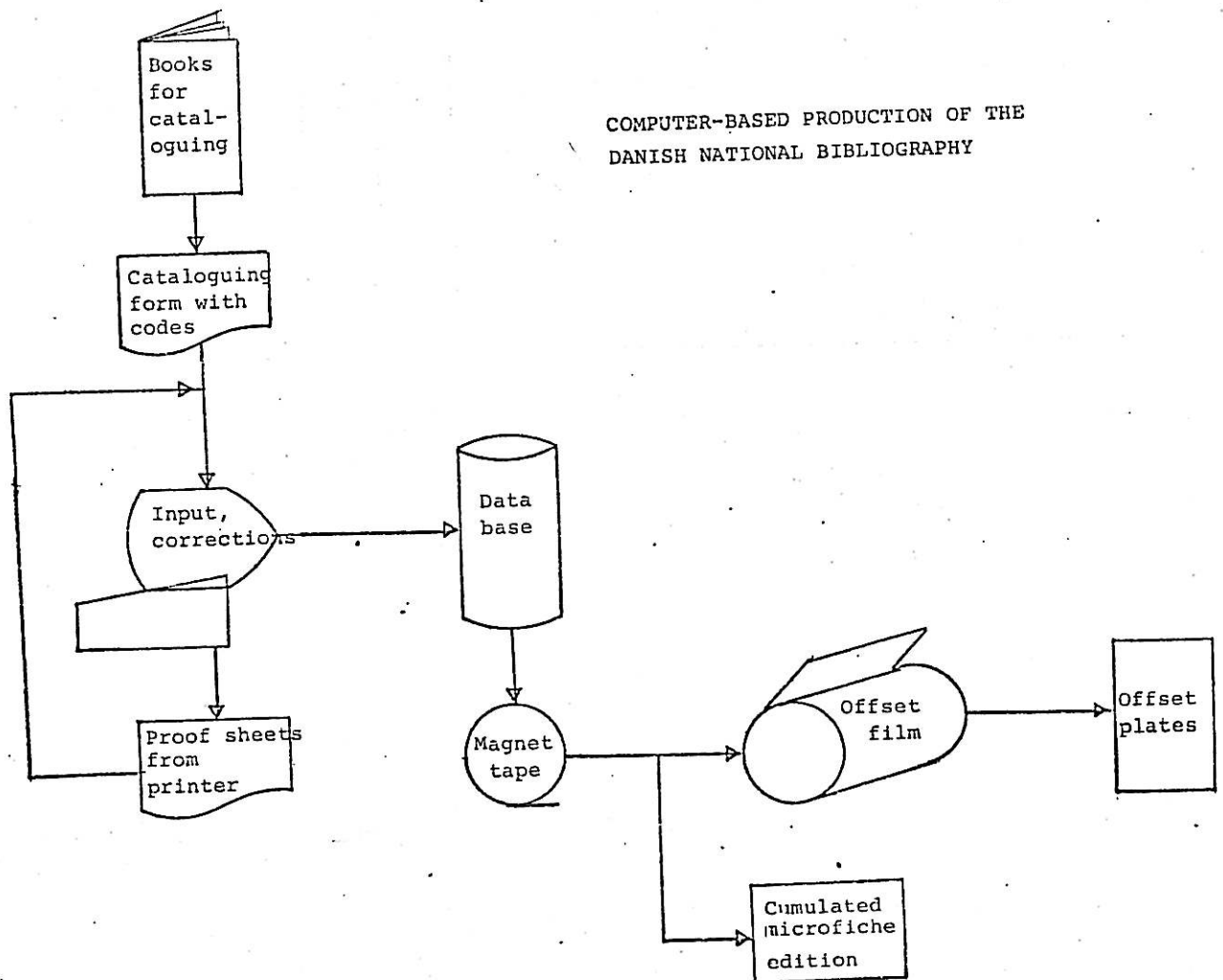
[Bind] 2. - 1977. - Side 33-60 : ill. : 21 cm.

Indhold: C. Sørensen Thomaskjær:
Niels Kallskinds Kjobinhawnsrejs
(fortsat). Fritz Reuter: Hvem, der var
døj kloegest.

Hf. : kr 14.95 net. 5182166*

001 00/0 ♦a518 215 8M
 004 00/0 ♦ba♦cs♦d3♦f0M
 008 00/0 ♦ac1977♦bdk♦jm♦ldanM
 009 00/0 ♦d7741♦t7741♦k7801M
 021 01/0 ♦cHf.♦dkr 14.95 net.M
 245 10/0 ♦aJyske Historier 09 Vers♦g[Bind] 1M
 260 00/0 ♦aKbh.♦dIstevbrowej 31, 2700 Bronshøj♦bJ. Wessel Westli♦c1977♦m
 260 01/1 ♦c1977♦ke9etM
 300 00/0 ♦abindM
 300 01/1 ♦a32 sider♦bill.♦c21 cmM
 520 00/0 ♦aGenotryk af gamle Jyske Historier 09 vers på JyskM
 530 01/0 ♦aIndhold: Fritz Reuter: Hvadant en Glaskaret blow te e Pibhue. Johan
 ne Cathrine Bøggild: Oversømmelsen i Erhuus i Bret 1860. C. Sørensen Thomaskjær
 : Niels Kallskinds KjøbenhavnrejseM
 561 00/0 ♦abhn♦køk ses ikke form
 568 00/0 ♦ahb(9)♦
 652 50/0 ♦a86.77-04M
 652 10/1 ♦a86.771M
 700 18/0 ♦aReuter♦hFritz♦tHvadant en Glaskaret blow te e PibhueM
 700 18/1 ♦aBøggild♦hJohanne Cathrine♦tOversømmelsen i Erhuus i Bret 1860M
 700 18/2 ♦aThomaskjær♦hC. Sørensen♦tNiels Kallskinds KjøbenhavnrejseM
 900 10/0 ♦aSørensen Thomaskjær♦hC.♦z700/2(a, h)M
 999 00/0 ♦a86.771M

The record for volume 1 of the two-volume publication shown on the previous page.
 The underlined fields are the volume-specific fields (2nd indicator = 1, resp. 8).
 The digit after the slash is the field repeat code



Filing signals

Correct filing of output is mostly secured by means of the format codes which are used, e.g., to distinguish between different types and parts of names for "logical filing".

If a name or title is to be filed differently from the way it is printed, the cataloguer may use two methods:

1. In order to ignore leading articles a control character is input after the article. This method is preferred for the indicator count of characters to be ignored.

245 10/0 *a The scarlet letter ...

2. In other cases of special filing a subfield is input preceded by an uppercase letter subfield code. This subfield is used for filing and is followed by another subfield preceded by the same letter in lowercase. This subfield contains the information to be printed.

100 00/0 *a Louis *E 14 *e XIV *f konge af Frankr g

COMPUTER FACILITIES

Bibliotekscentralen does not have its own computer department, but cooperates with the common computer centre of the Danish municipal authorities, *Kommunedata*.

Kommunedata both runs the database and produces magnetic tapes for the various products that are extracted from the database. These tapes are used partly for phototypesetting, partly for production of microforms (COM fiches and film).

The typesetting of Dansk Bogfortegnelse is done on a *Digiset* cathode ray phototypesetter owned by a private firm in Copenhagen. Most of the other products are typeset on two smaller machines owned by Bibliotekscentralen.

The hardware at Kommunedata consists, at present, of an IBM 3033. The standard programming language is PL/I.

THE ON-LINE INPUT SYSTEM

The hardware used at Bibliotekscentralen for input to the database was installed in 1975. It is a Danish-built RC 3500 controller with 12 terminals, 1 matrix printer, 1 papertape reader, and 1 papertape punch.

Four of the terminals are used for the National Bibliography. The others are used for input of foreign books, updating of records for printed cards, for music and grammophone records.

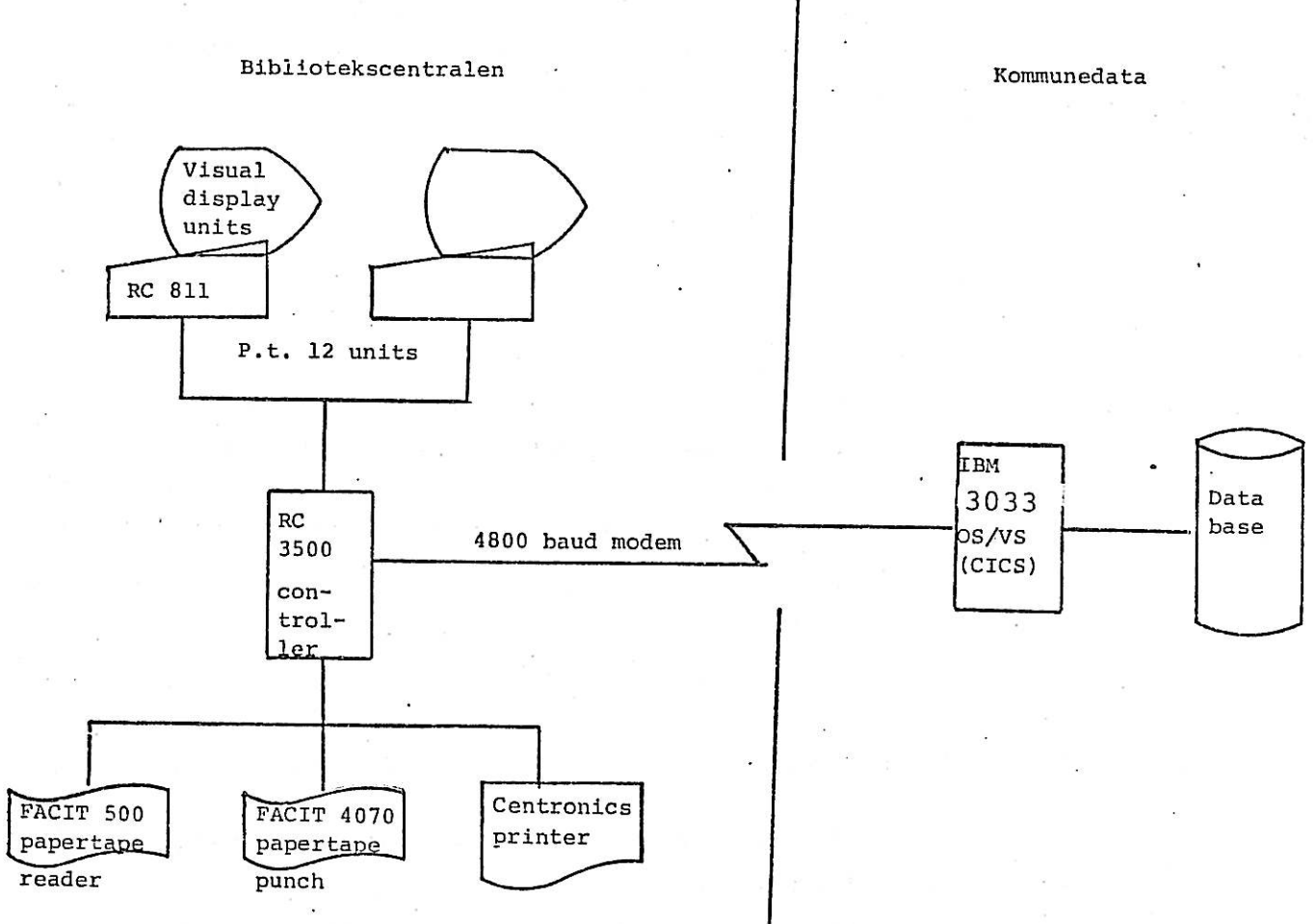
The printer is used for printing out newly created records for proof-reading. The print-outs are discarded immediately after the corrections are made).

The papertape reader is mainly used for input of the program for the controller.

Character set

The terminals and the printer can display the full character set used in the database. It is an adapted version of the EBCDIC 8-bit character set and comprises about 180 graphic characters and about 10 bibliographic control characters.

HARDWARE CONFIGURATION OF ON-LINE CATALOGUING SYSTEM



Line error Delete Reset Print Read Punch Shift Enter Shift

LINE FEJL	LOGÅR	FEJL TEGN	SKRIV	LÆS	HUL	FRÆSK	SEND	SPEC	"	0	1	2	3	4	5	6	7	8	9	+	×	÷	·	←	→	↑	↓	↶	↷
∞	∫	∑	√	<	>	±	×	·	SLET	SLET	SLET	SLET	Ⓢ	Ⓣ	Ⓤ	Ⓥ	Ⓦ	Ⓧ	Ⓨ	Ⓩ	Ⓩ	Ⓩ	←	→	↑	↓	↶	↷	
~	..	∑	∑	∑	∑	∑	∑	∑	←	→	←	→	←	→	←	→	←	→	←	→	←	→	←	→	←	→	←	→	
!	!	!"	£	\$	%	&	?	()	=	*	%	+	→	←	TEGN	TEGN	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD	
0	1	2	3	4	5	6	7	8	9	+	/	.	;	→	←	NL	TEGN	TEGN	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD	
Q	W	E	R	T	Y	U	I	O	P	Å	Aa	Ä		CR	↶	↑	→												
A	S	D	F	G	H	J	K	L	Æ	Ø	Ö	Œ		←	LINE	LINE	LINE	LINE	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD	UD
SKIFT	Z	X	C	V	B	N	M	[]	:	.	-	SKIFT	U															
Lis														△	◻	◻	◻	◻	◻	◻	◻	◻	◻	◻	◻	◻	◻	◻	◻

The keyboard of the terminals
 Most of the graphic keys have 4 functions

The input system communicates with the database ; at the computer centre ten miles away through a permanent telephone line at 4800 bits per second, simulating an IBM 3270 terminal system. The IBM communication software is CICS.

On-line cataloguing

The application software for the on-line searching and cataloguing system was designed by the computer centre (Kommunedata).

The search system Five types of searches can be performed:

- 1 Author
- 2 Title
- 3 Standard book number (ISBN)
- 4 Record number (FAUST no.)
- 5 Subject (classification codes)

When searching for an author or title you enter a search argument which may be anything from a single letter to a complete name or title. The system responds by displaying 15 names or titles, the first of these being identical with the search argument or (if such a name or title does not exist in the file) the first one next in the alphabet.

From any display of names or titles you can go forward or backward in the alphabet, 15 lines at a time, or you can enter a new search argument, either for the same file or for another file.

From the author file you can select a name, enter the corresponding line number, and then get a list of titles by this author. (If there are more than 15 titles, you can go forward or backward). From this list you can select a title, enter the corresponding line number, and get the complete bibliographic detail of that record.

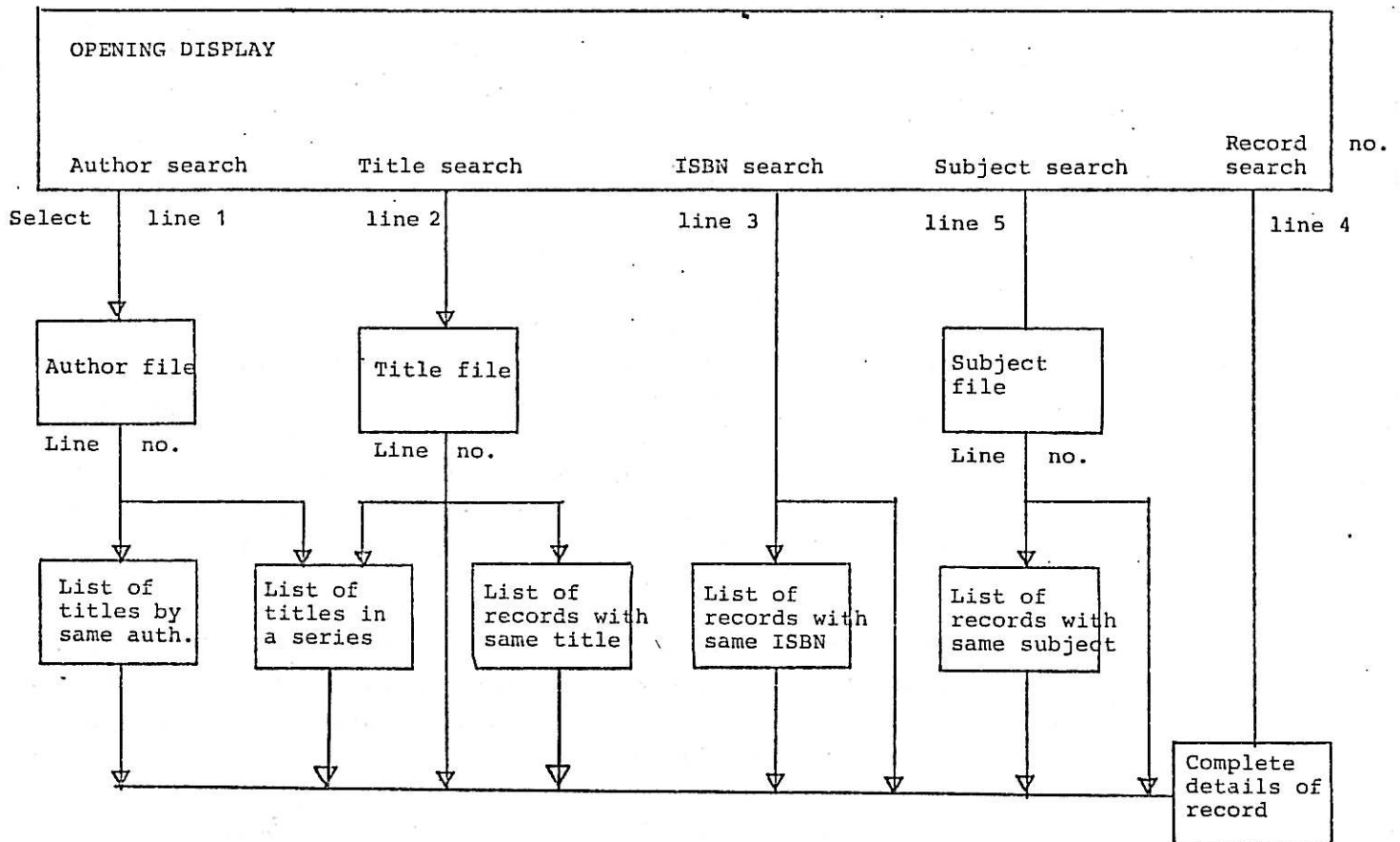
If you select a title in the title file, you either get the complete bibliographic details directly, or, if there is more than one record with the same title, you get a list of these records. If it is a series title, you get a list of titles in that series.

If you enter an ISBN or a record number, you get the details of the record directly.

From the display of the record it is possible to go back to the file you started from and select another title or another name.

By combination of search arguments it is possible to skip unnecessary intermediate steps in the search process and go directly to the display you want.

THE SEARCH SYSTEM



It will shortly be made possible to combine author & title search arguments. If you want information on a particular book of which you do not know the ISBN or record number, the title is normally used as search argument.

Realtime system

The system is a true realtime-system in that all indexes (access-point files) are updated immediately. That means that a newly created record can be immediately searched.

The cataloguing The search system was designed as a necessary part of the cataloguing process. Therefore you can select names and titles from the access point files (indexes) and transfer them to a new record for a book you are cataloguing. This is done to secure uniformity of headings, and it is the only means of authority control. A separate authority file does not exist.

Authority control

Input method

Originally, in designing the cataloguing system, it was thought unnecessary to input the format codes identifying the individual data elements. Other similar systems, such as IBM's ELMS and DOBIS, guide the cataloguer through process by displaying a "form" with explanatory text and with fixed positions for author, title, and the other data elements of a record.

However, during the design process, it became evident that the data elements were so variable that the necessary number of "forms" would be much larger than acceptable, and the "dialogue" between the system and the cataloguer would be much too complicated.

Therefore, it was decided to use a blank display on which the operator writes the codes and data, except for the names and titles which have been transferred from the files.

Originally it was the intention to divide the work between a cataloguer who would prepare an input form on paper, and a terminal operator who would do the clerical work, but it has become increasingly common to do the cataloguing directly at the terminals.

At present, therefore, the input sheet has been reduced to a small slip containing the classification codes and the search codes. These data are supplied separately before descriptive cataloguing.

F A U S T

UDVÆLG EN AF FØLGENDE FUNKTIONER

- 1 SØGNING PÅ FORFATTERNAVN
- 2 SØGNING PÅ TITEL
- 3 SØGNING PÅ ISBNNUMMER
- 4 SØGNING PÅ FAUSTNUMMER
- 5 SØGNING PÅ EMNE

INDTAST ØNSKET LINIENR. FULGT AF EN BLANK OG ET SØGEARGUMENT

3 87-7241-370-0

UKENDT ISBN NUMMER

The operator wants to make sure that the book is not already in the database. She makes a search by Standard Book Number by entering '3' followed by the number. The system responds 'Unknown ISBN'.
(The number is correctly written, otherwise the answer would have been 'Invalid ISBN')

F A U S T

UDVÆLG EN AF FØLGENDE FUNKTIONER

- 1 SØGNING PÅ FORFATTERNAVN
- 2 SØGNING PÅ TITEL
- 3 SØGNING PÅ ISBNNUMMER
- 4 SØGNING PÅ FAUSTNUMMER
- 5 SØGNING PÅ EMNE

INDTAST ØNSKET LINIENR. FULGT AF EN BLANK OG ET SØGEARGUMENT

2 peace and

UKENDT ISBN NUMMER

The operator now makes a search by title. She enters '2' for title search, followed by as much of the title as she finds necessary.

SØGEKRITERIUM: peace and

TITELOVERSIGT (EVT. FORKORTET):

- 1 Peace childN241
- 2 Peace conferences
- 3 Peace for our time
- 4 Peace in Europe
- 5 Peace in EuropeN241
- 6 Peace in the Middle East?
- 7 Peace in the Middle East?N241
- 8 Peace: research, education, action
- 9 Peace through the ages
- 10 Peace, war and defense
- 11 Peace with China?
- 12 Peace with horror
- 13 Peaches
- 14 Peach's Australia
- 15 Peaks and lamas

LINIENR. FOR DETAILOVERSIGT R=ALTERNATIV SØGEFUNKTION
E: NYT SØGEKRITERIUM

B=BLADRING BAGUD
F=BLADRING FREMAD

♦a♦1 galtung

15 titles are displayed in alphabetic order. (The sort key comprises only the first 20 characters).
The first one is after the requested title so the operator knows it is not in the file.
By a combined search argument she switches to the author file and makes a search for the author,

SØGEKRITERIUM: galtung

NAVNEOVERSIGT:

- 1 Galtung
- 2 Galtung Johan
- 3 Galtung Johan Essays in peace research
- 4 Galtung Lauritz Fredrik
- 5 Galusjkina Lidiya
- 6 Galvan Jose Maria Moreno 100
- 7 Galvani Maureen
- 8 Galvao Henrique
- 9 Galve Roberto
- 10 Galvin Patrick
- 11 Galvin Thomas J.
- 12 Galway Alberic O'Kelly de 100
- 13 Galway James
- 14 Galzy Jeanne
- 15 Gam Helga

LINIENR. FOR TITELOVERSIGT R=ALTERNATIV SØGEFUNKTION
E: NYT SØGEKRITERIUM

B=BLADRING BAGUD
F=BLADRING FREMAD

v.2

FORFATTER GEMT

The author is found in line 2.
The operator selects the name for transfer to the cataloguing display by entering 'v.2'.
The system responds 'Author stored'.

SØGEKRITERIUM: 9altun9

NAVNEOVERSIGT:

- 1 Galtun9
- 2 Galtun9 Johan
- 3 Galtun9 Johan Essays in peace research
- 4 Galtun9 Lauritz Fredrik
- 5 Galusjkina Lidija
- 6 Galvan Jose Maria Moreno 100
- 7 Galvani Maureen
- 8 Galvao Henrique
- 9 Galve Roberto
- 10 Galvin Patrick
- 11 Galvin Thomas J.
- 12 Galway Alberic O'Kelly de 100
- 13 Galway James
- 14 Galzy Jeanne
- 15 Gam Helga

LINIENR. FOR TITELOVERSIGT

R=ALTERNATIV SØGEFUNKTION

B=BLADRING BAGUD

E: NYT SØGEKRITERIUM

F=BLADRING FREMAD

v.3

FORFATTER GEMT

The cataloguer finds the author-title-series in line no.3 and selects it, too. It could also have been found under the series title in the title index.

SØGEKRITERIUM: 9altun9

NAVNEOVERSIGT:

- 1 Galtun9
- 2 Galtun9 Johan
- 3 Galtun9 Johan Essays in peace research
- 4 Galtun9 Lauritz Fredrik
- 5 Galusjkina Lidija
- 6 Galvan Jose Maria Moreno 100
- 7 Galvani Maureen
- 8 Galvao Henrique
- 9 Galve Roberto
- 10 Galvin Patrick
- 11 Galvin Thomas J.
- 12 Galway Alberic O'Kelly de 100
- 13 Galway James
- 14 Galzy Jeanne
- 15 Gam Helga

LINIENR. FOR TITELOVERSIGT

R=ALTERNATIV SØGEFUNKTION

B=BLADRING BAGUD

E: NYT SØGEKRITERIUM

F=BLADRING FREMAD

♦a♦2 prio mon

FORFATTER GEMT

Having selected the author series she now switches to the title index and makes a search for the other series.

SØGEKRITERIUM: Prio mon

TITELOVERSIGT (EVT. FORKORTET):

- 1 Prio monographs from the International Peace Res\Institute, Oslo ; 4\490
- 2 Prio monographs from the International Peace Res\Institute, Oslo ; 5\490
- 3 Prio monographs from the International Peace Res\Institute, Oslo ; 7\490
- 4 PRIO-publikasjon ; M-21\490
- 5 Prioritering af busser i samordnede signalanle9\700
- 6 Prioritering i sundhedsvæsenet\745
- 7 Prioriteringen i sundhedsvæsenet
- 8 Prioriteringsundersøgelse for ny hovedlandeveje 1977/78\745
- 9 Priority
- 10 Pripotomljavanje zla
- 11 Pripovetke
- 12 Pripovetke Komedije
- 13 Pripovetke o Beogradu 1. dio
- 14 Pripovetke o Beogradu 2. dio
- 15 Pripovijetke

LINIENR. FOR DETAILOVERSIGT A=ALTERNATIV SØGEFUNKTION B=BLADRING BAGUD
 E: NYT SØGEKRITERIUM F=BLADRING FREMAD

v.1

TITEL GENT

The series is found in lines 1-3. Line 1 is selected, and now the searches have been completed. The cataloguer demands the display for cataloguing by entering 'k' (not shown here).

(Normally, the title index will contain only one line for a series title, and the individual volumes in the series may then be displayed by selecting the line number. Here, however, the numbers in the series have been put into the same subfield as the title which reflects an earlier policy.

The first inverted slash in lines 1-3 indicates that the series title has been abridged in the middle. The second inverted slash is followed by a 3-digit number which is the field code from which the title has been extracted for the index.

K A T A L O G I S E R I N G

*X0010/0 *aGaltung*hJohan
*X0010/0 *aGaltung*hJohan*tEssays in peace research*U2*vvolume 2
*X9000/X *aPrio monographs from the International Peace Research Institute, Oslo ; 4

W, S ELLER R INDDATERING SLUT M MERE INPUT
INDDATERING OPGIVET BRUG UDGAR

The display for cataloguing is, in principle, a blank display, but the names and titles selected from the files have been transferred, with format codes.
(Those digits of the codes which are dependent on the function of the name or title in the specific record are given as 'X').

K A T A L O G I S E R I N G

♦10010/0 ♦aGaltung♦hJohan
 ♦80010/0 ♦aGaltung♦hJohan♦tEssays in peace research♦U3♦vvolume 3
 ♦49000/0 ♦aPrio monographs from the International Peace Research Institute, Oslo ; 7
 ♦004♦ba♦cs♦fd
 ♦008♦af1978♦bdk♦leng
 ♦009♦d
 ♦021 87-7241-37-0♦chf.♦dkr 178.00
 ♦24510, Peace and social structure♦d[bw] Johan Galtung
 ♦26010 Copenhagen♦bEjlers♦c1978♦ktr. i udl.
 ♦300 563 sider♦bill.♦c24 cm
 ♦490/1 Essays in peace research ; volume 3
 ♦532 Notes (litteraturhenvisninger): side 509-564
 ♦561 bln+JYh+lc/sc
 ♦652 30.13♦65260/1 32.7

W, S ELLER R INDDATERING SLUT M MERE INPUT
 INDDATERING OPGIVET BRUG UDGAR

w

The 'X' in the format codes are changed by the operator according to the manuscript,
 and the rest of the manuscript is transcribed using '♦' as field mark and subfield mark.
 The operator enters the code 'w' to indicate that cataloguing has been completed.

K A T A L O G I S E R I N G

♦♦ ISBN-NR. FORKERT
 ♦02100/0 ♦a87-7241-37-0♦chf.♦dkr 178.00

W, S ELLER R INDDATERING SLUT M MERE INPUT
 INDDATERING OPGIVET BRUG UDGAR

The system responds with an error message: 'ISBN check digit incorrect'.

K A T A L O G I S E R I N G

♦♦ ISBN-NR. FORKERT

♦02100/0 ♦a87-7241-370-0♦chf.♦dkr 178.00

W, S ELLER R INDDATERING SLUT M MERE INPUT
 INDDATERING OPGIVET BRUG UDGAR

The operator corrects the number and enters the code 'w' once more.

OPRETDATO: 780625 AJOURDATO: 780625 TERMID: LOG1

001 00/0 ♦a527 730 2M

004 00/0 ♦ba♦cs♦f0M

008 00/0 ♦af1978♦bdk♦len9M

009 00/0 ♦d7828♦t7828♦n0104M

021 00/0 ♦a87-7241-370-0♦chf.♦dkr 178.00M

100 10/0 ♦aGaltun9♦hJohanM

245 10/0 ♦aPeace and social structure♦d[b9] Johan Galtun9M

260 10/0 ♦aCopenhagen♦bEjlers♦c1978♦ktr. i udl.M

300 00/0 ♦a563 sider♦bill.♦c24 cmM

490 00/0 ♦aPrio mono9raphs from the International Peace Research Institute, Os
 lo ; 7M

490 00/1 ♦aEssays in peace research ; volume 3M

532 00/0 ♦aNotes (litteraturhenvisninger): side 509-564M

561 00/0 ♦abhn+J9h+lc/scM

652 00/0 ♦a30.13M

652 60/1 ♦a32.7A

800 10/0 ♦aGaltun9♦hJohan♦tEssays in peace research♦U3♦vvolume 3M

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The asterisk after the national bibliographic number indicates that printed cards and order slips have been made for this book.

ALFABETISK DEL 1978

GANG

- Galathea report : scientific results of the Danish deep-sea expedition round the world 1950-52 / issued by the Galathea Committee. - Volume 1—. - Copenhagen : Scandinavian Science Press, 1956—. - DC 55.9.
Udkommer uregelmæssigt. - Volume 1-12 udgivet af Dansk Videnskabs Forlag. ISSN 0416-704X.
Volume 14. - 1977. - 194 sider, [26] tavler : ill. ; 30 cm.
Hf. : kr 236.00. 528 254 3
- Galberg Jacobsen, Henrik → Dansk Sprog-nævn: Svarregister 1955-75.
- Galbraith, John Kenneth: Usikkerhedens år / [af] John Kenneth Galbraith ; oversat af Henrik M. Jacobsen. - Kbh. : Samleren, 1978. - 263 sider ; 25 cm. - DC 33.1.
Originaltitel: The age of uncertainty. ISBN 87-568-0464-4 hf. : kr 97.85. ISBN 87-568-0466-0 ib. : kr 122.45. 530 811 9 *
- Galdone, Paul: Den bestovlede kat / [tekst og tegninger af] Paul Galdone ; [dansk tekst: Christopher Maaloe]. - 1. oplag. - [Kbh.] : Carlsen, 1978. - 31 sider : alle ill. ; 30 cm. - DC 39.12-8.
Originaltitel: Puss in boots. ISBN 87-562-1431-6 ib. : kr 38.20. 531 274 4 *
- Den gale hund fra Utah → Masterson, Louis.
Den gale konge → Foster, Harold.
Den gale kærlighed → Wamberg, Bodil.
Den gale mand → Panduro, Leif.
Galgen i Graneros → Patten, Lewis B.
Gallionsfigurens hemmelighed → Hansen, Erik Niels, f.1905.
Galleri Torso → Torso.
Gallerkrigen / Caesar, C. Julius → Lund, Allan A., f. 1944: Cæsar som etnograf.
Gallium arsenide transferred electron devices → Jeppesen, Palle, f. 1941.
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- Galtung, Johan: Peace and social structure / [by] Johan Galtung. - Copenhagen : Ejlers, 1978. - 563 sider : ill. ; 24 cm. - (Prio monographs from the International Peace Research Institute, Oslo ; 7). - (Essays in peace research ; volume 3). - DC 30.13, 32.7. ISBN 87-7241-370-0 hf. : kr 178.00. 527 730 2 *
- Galvanic action of steel in concrete → Arup, Hans.
Galvanisk virkning af stål i beton → Arup, Hans: Galvanic action of steel in concrete.
Gambia → Fentz, Vagn.
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- Game Biology Station → Vildtbiologisk Station.
Gamle → Brovst, Bjarne Nielsen.
Gamle danske bondergårde → Steensberg, Axel.
Gamle danske dyrefabler → Tang Kristensen, Evald.
Gamle danske glas → Thygesen, Mogens.
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Gamle dukker → Tvermoes, Susanne.
Den gamle grænse - set på postkort → Bruhn, Jens.
Gamle guldsmykker og solvtøj fra Hans Offersens værksted i Aabenraa fra 1756-1801 → Michelsen, Anne-Helene, f. 1914.
Gamle Himmerlands-danse → Hansen, H. H., f. 1879.
*Den gamle jagtbetjent fortæller → Thustrup Nielsen, Andreas Julius.
Gamle Kammeraters Fond gennem 50 år → Christiansen, Preben, f. 1913.
Det gamle Kina → Hay, John.
Den gamle kone i kaffekoppen → Schade, Virtus.
Den gamle kro i Bjerringbro → Broch, Erik.
Det gamle København → Broby-Johansen, R.
Det gamle liv → Katz, Steen.
Den gamle mand og havet → Hemingway, Ernest.
Gamle piber af merskum → Larsen, Ole W. Ø., f. 1920.
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- Det gamle Testamente og det israelitisk-jødiske folks historie → Holm-Nielsen, Sv.
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- Gamle ure → Mathiesen, Ole, f. 1930.
Gamle våben → Flindt, Torben W.
Det gamle Ægypten → Boase, Wendy.
GAMMA → Gads moderne matematik.
Gamma → Feynman, Richard P.: Structure of the proton.
En gammel Jernbanemands Erindringer 1854-1882 → Rambusch, H. H. A.
En gammel Jæger: Paa Fjordengene i Maj, i August og i Oktober → Pedersen, Thorvald, f. 1883.
- Gammel Niels / Christiansen, N., f. 1852 → Slægtsarkivet: Slægtsbog familien Christiansen.
En gammel Ungkarl → Haandbog for Pebersvende.
Gammel Ølstykke Brugsforening ... gennem 100 år → Esbech, Svend: Gl. Ølstykke Brugsforening ... gennem 100 år.
Gammelbo, Poul: Heerup - en billedverden → Heerup, Henry.
Gammelgaard, Arne: Fra almueskrifter til bibliotek : Hammel Biblioteks historie / [af] Arne Gammelgaard. - [Hammel] : Lokalhistorisk Samling : [eksp. Hammel Bibliotek] [Voldbyvej 7, 8450], [1976]. - 21 sider : ill. ; 21 cm. - DC 02.4. Hf. : enkelt eksemplarer gratis. 524 527 3
- Gammelgaard, Harald → Frihed eller lighed.
Gammelgaard, Per → Digt-katalog.
Gammelgaard, Per: Den store finale og andre digte om cirkus / [af] Per Gammelgaard. - [Nykøbing Mors] : Attika, cop. 1978. - 48 sider ; 22 cm. - DC (86-01). ISBN 87-87597-45-4 hf. : kr 48.00. 525 936 3 *
- Gammelpot → Roep, Thom.
Gammelpot og den lumske læge → Roep, Thom: Eventyret om Gammelpot og den lumske læge.
Gammelt messing → Larsen, Jens, f. 1943-12-24.
Gammeltoft, Arne → Kontaktlærer.
Gammeltoft, Arne: Rodovre kommunes integrationsordning 1977 → Frank Hansen, H.
Gammeltoft, Arne: Skoleassistenter i Rødovre : 5 års erfaringer med skoleassisten-ter som medarbejdere ved Rødovre skolevæsen / [af] Arne Gammeltoft ; [foto: Bent Søby]. - [Rødovre] : Rødovre kommune, Kulturel forvaltning : eksp.: Pædagogisk Central (Højnæsvej 61, 2610), 1978. - 39 sider : ill. ; 30 cm. - DC 37.39. Øverst på titelsiden: Pædagogisk Cen-tral, Afd. for pædagogisk udvikling. Hf. : kr 10.00 net. 526 545 2 *
- Gammeltoft, Inger Byrjalsen → Tilvalgslejr-skole på Sonnenberg om demokratiets fremtid.
Gammeltoft-Hansen, Hans: Lærebog i strafferetspleje → Koktvedgaard, Mo-gens.
Gandrup, Carl: De tre skalke : et gammelt skæmtespil i fem optrin med viser og sange / [af] Carl Gandrup. - [Gråsten] : Drama, 1978. - 56 sider ; 23 cm. - DC (86-03). ISBN 87-7419-191-8 hf. : kr 21.00. 526 031 0 *
- En gang imellem bliver Julie bange → Hellner, Katarina.
En gang imellem bliver Julie ked af det → Hellner, Katarina.
En gang imellem bliver Julie særlig glad → Hellner, Katarina.
En gang imellem bliver Julie vred → Hellner, Katarina.
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The National Bibliography
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Craft, Ruth: Pieter Brueghels Landsbymar-
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Steenstrup. - [Kbh.] : Gyldendal, 1976. -
[32] sider : ill. ; 27 cm. - DC (83-291).
Originaltitel: Pieter Brueghel's The fair.
- Rygtitel: Landsbymarked.
ISBN 87-01-41662-6 ib. : kr 34.50.
503 739 5 *

Standard catalogue for
children's libraries

Craft, Ruth, Pieter Brueghels Landsbymar-
ked
på dansk ved Poul Steenstrup. - Kbh. : Gyldendal,
1976. - 32 sider : ill.
Billedkunstbog i farver om Pieter Brueghels maleri
Landsbymarked. En rimet tekst fabulerer over bille-
dets mange episoder og situationer. - Originaltitel: Pi-
eter Brueghel's The fair. - Rygtitel: Landsbymarked.

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rimet tekst fabulerer over
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Rygtitel: Landsbymarked.
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100 10/0  +aCraft+hRuthM
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69.47 **Dansk Ingeniørforening**
 Dansk Ingeniørforenings norm for vandinstallationer : Dansk Standard DS 439. - 1. udgave. - Kbh. : Teknisk Forlag, 1978. - 78 sider : ill. - (Normstyrelsens publikationer ; NP-142-N).

Afløser Dansk Ingeniørforenings normer nr 13, 69-70, 81-82.
 Rygtitel: Vandinstallationer.

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