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MATEMATISKE MODELLER
Litteratur på Roskilde Universitetsbibliotek

En bibliografi

Af Else Høyrup

TEKSTER fra

Matematiske modeller: Litteratur på Roskilde Universi-
tetsbibliotek. En bibliografi.
Af Else Høyrup.

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Resumé:

Denne bibliografi omfatter litteratur om matematiske mo-
deller på Roskilde Universitetsbibliotek (RUB) indtil
august 1982. Der bliver dels fremdraget bøger om modeller,
som i RUB's systematiske katalog er klassificeret som
matematik eller datalogi (ikke nødvendigvis som opstil-
lingsgruppe), dels tidsskriftsartikler om modeller fra
4 matematiske tidsskrifter i perioden 1976-82, samt
IMFUFA's egen skriftseries numre om matematiske modeller.
Bogtitlerne er forsynet med den opstillingssignatur,
som de har på RUB's åbne hylder, og bøger og tidsskrifts-
artikler er ordnet sammen systematisk i et til lejlighe-
den konstrueret klassifikationssystem, som gennemgås i
indholdsfortegnelsen og i et alfabetisk emneregister.
Der er desuden et alfabetisk navneregister.

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MATEMATISKE MODELLER

LITTERATUR på
ROSKILDE UNIVERSITETS-
BIBLIOTEK

En bibliografi

Af ELSE HØYRUP.

Roskilde, 1982

INDHOLDS FORTEGNELSE

FORORD

Denne bibliografi har et dobbelt sigte: Dels er den et speciale til forskningsbibliotekaruddannelsen på Danmarks Biblioteksskole, dels er den tænkt som en publikation til IMFUFA's skriftserie (IMFUFA = Instituttet for studiet af matematik og fysik samt deres funktioner i undervisning, forskning og anvendelser, Roskilde Universitetscenter).

På Roskilde Universitetscenter og det dertil knyttede Roskilde Universitetsbibliotek forsøger man at bygge nogle tværfaglige miljøer op, som for matematiks vedkommende indebærer en stor interesse for en måde at anskue matematikkens moderne anvendelser på, som kan kaldes "matematiske modeller". (Ved en matematisk model forstås en repræsentation af et udsnit af virkeligheden ved hjælp af matematiske teknikker). Tidligere anvendtes matematik fortrinsvis i fysik, astronomi og teknik; men i de senere år har man udvidet anvendelsesområderne til biologi, miljøproblemer, energiproblemer, økonomi og andre samfundsvidenskaber, lingvistik, psykologi m.m. Denne udvidelse er sket på godt og ondt, det sidste når matematikken kun bliver brugt som en overfladisk tilsmykning af ideologiske argumenter. I undervisningen og forskningen ved IMFUFA beskæftiger man sig dels med den ofte krævende modelbygningsproces, dels med en evaluering af forskellige færdige modeller.

I samarbejde med IMFUFA og datalogerne på RUC (som er tilknyttet et andet institut, Institut for datalogi og geografi) har vi på Roskilde Universitetsbibliotek (RUB) indkøbt en del litteratur om matematiske og datalogiske modeller, dels som bøger, dels som tidsskrifter. Disse publikationer indgår i den større samling, som et universalbibliotek er. For at IMFUFA's og datalogis lærere, studenter og teknikere, andre grupper på RUC samt evt. interesserede uden for RUC skal kunne få et mere dybtgående kendskab til specialsamlingen om matematiske modeller, har jeg lavet denne bibliografi.

Bøger og tidsskriftsartikler om matematiske og datalogiske modeller er trukket frem (ved hjælp af en noget formalistisk udvælgelsesmetode, som beskrives nedenfor). Derefter er de ordnet systematisk i et til lejligheden konstrueret specialklassifikationssystem, som gennemgås i indholdsfortegnelsen og i et af registrene. Jeg har valgt at sætte bøger og tidsskriftsartikler sammen for bedre at kunne belyse delemner, og jeg har valgt en anden måde at klassificere på end den, jeg og de andre forskningsbibliotekarer på RUB anvender til daglig. Til daglig er vores univers nemlig det universelle univers, mens det her er det delunivers, der består af matematikken og datalogien samt deres anvendelser. En bog eller en artikel om en bestemt anvendelse af et bestemt område af matematikken eller datalogien kan teoretisk dels placeres under det matematiske (eller datalogiske) emne eller under anvendelsesområdet (og i det universalklassifikationssystem, der benyttes på RUB (UDK = det universelle decimalklassifikationssystem), endvidere under koblingen mellem de to emner, betegnet med :). Af overskuelighedsgrunde har jeg valgt kun at give litteraturen én placering, og da jeg som sagt kun beskæftiger mig med et delunivers her, har jeg her valgt at lade anvendelsesområdet trække mest. Det betyder dog ikke, at jeg ønsker en ændret opstilling af bøgerne til daglig. Selv om jeg anvender en anden teknik her end til daglig, så har jeg alligevel haft stort udbytte af de klassifikationer, bøgerne allerede har, og af vores klassifikationsskemaer generelt.

Under temaet katalogisering (udformning af indførelserne) nævner jeg, at jeg anfører bøgernes opstillingsmærke på de åbne hylder. For én, som er bekendt med vores UDK-klassifikationssystem, vil klassifikationstallet måske se lidt tilfældigt ud; men det skyldes, at det er meget vanskeligt i et universalbibliotek at klassificere tværfaglig litteratur konsekvent. Det er ikke nok at kigge på bogens titel, man må også se på hvilke nuancer, der ligger i bogens indhold, for at kunne vælge, om bogen skal placeres under det ene eller det andet fag. Det er denne usikkerhed, jeg er kommet om ved, ved at lade anvendelsesområdet trække mest (med mindre der er

tale om så mange anvendelser, at bogen egentlig handler om anvendt matematik (eller datalogi) generelt).

Denne bibliografi er desuden forsynet med et alfabetisk navneregister og et alfabetisk emneregister (som er lavet på grundlag af mit klassifikationsskema).

Jeg har valgt ikke at annotere den udvalgte litteratur, da dette ville have krævet et større tidsforbrug, end jeg har kunnet afsætte til denne opgave.

I den sidste del af dette forord vil jeg beskæftige mig med den præcise udvælgelse af litteraturen samt med den valgte katalogisering af indførelserne:

Da denne bibliografi også er et speciale til Biblioteks-skolen, hvor man ved bibliografier ønsker en konsekvent ud-vælgelsesprocedure, er der her anvendt en noget formalistisk udvælgelsesmetode af bøgerne: nemlig de bøger, som i RUB's systematiske katalog er klassificeret som matematik eller datalogi (ikke nødvendigvis som opstillingsgruppe, gerne som biindførelse, for at få så mange anvendelser med som muligt). Dvs. i vores UDK-systematik gruppe 51 (matematik) med under-grupper og gruppe 681.3 (datalogi) med undergrupper. Desuden er medtaget de overordnede naturvidenskabelige grupper: grup-pe 5/6 (naturvidenskab og teknik generelt), gruppe 5o (natur-videnskab generelt) og gruppe 5o:1 (naturvidenskabernes filo-sofi). Der er også taget filosofisk litteratur om modeller med inden for de nævnte grupper; men der er gjort én undta-gelse: gruppe 51o.6 (matematisk logik) er ikke medtaget, da begrebet "model" nærmest bruges omvendt her (virkeligheden betragtes her som en model for teorien).

Ved den valgte udvælgelsesmetode får man også bøger med, som er opstillet andre steder end i matematikgrupperne, men desværre ikke alle relevante bøger (hvilket nok også til dette formål havde været for stort et arbejde). F.eks. kommer de grundlæggende bøger om "verdensmodeller" (Forrester, Mea-dows m.fl.) desværre ikke med, se noterne til denne gruppe.

Blandt tidsskrifterne er ikke alle gennemgået (af tids-
grunde). Der er valgt 4 matematiktidsskrifter (gruppe 51),
som alle spiller en vis rolle på RUC, samt IMFUFA's egen
skriftserie:
Tekster fra IMFUFA (gruppe 5o).

De 4 tidsskrifter er:
American Mathematical Monthly (fork. Amer. Math. Mon.).
International Journal of Mathematical Education in Science
and Technology (forkortet Int. J. Math. Educ. Sci. Technol.).
Bulletin / Institute of Mathematics and its Applications
(=IMA) (forkortet Bull. Inst. Math. Appl.).
Applied Mathematical Modelling. Environmental, Social and
Engineering Systems (forkortet Appl. Math. Modelling).
NB Vol.2 (1978) er ikke gennemset, da det ikke findes
på RUB.

I Applied Mathematical Modelling handler selvfølgelig
alle artiklerne mere eller mindre om matematiske modeller,
og jeg kunne enten have taget alle eller ingen med. Jeg har
valgt at tage de artikler med, som direkte i titlen handler
om modeller, for dog at belyse nogle interessante anvendelses-
aspekter.

Dette udvalg af 4 artikler og 1 serie betyder imidler-
tid ikke, at ikke også andre RUB-tidsskrifter eller serier
indeholder artikler (eller numre) om matematiske modeller.

Af praktiske grunde har jeg kun taget nyere tidsskrifts-
artikler med (fra og med 1976).

Jeg startede arbejdet med denne bibliografi februar
1982 og afsluttede indsamlingen af litteratur i begyndelsen
af august 1982.

Afgrænsningen af bibliografien er selvfølgelig udtryk
for et valg: Når jeg har udvalgt litteratur om matematiske
modeller kunne jeg også have taget nærbeslægtede områder
som systemteori med generelt. Det har jeg dog i denne sammen-

hæng syntes var for stor en mundfuld, når det faldt uden for
resten af bibliografiens rammer.

   Med hensyn til katalogiseringen af bogtitlerne (udform-
ningen af indførelserne), så gør denne bibliografi det ikke
ud for et mønsterkatalog, jeg har blot valgt en nogenlunde
let bearbejdning af den katalogisering, som bruges i vort
katalog på RUB. Jeg har under hver titel anført bogens op-
stillingssignatur på de åbne hylder, så bøgerne er lige til
at finde. Det første opstillingsbogstav er signaturen for den
afdeling, bogen står på, det næste er opstillingstallet, som
svarer til det omtalte UDK-klassifikationssystem, mens de
tre bogstaver til sidst bestemmer bogens alfabetiske placering
gennem de tre første bogstaver af det såkaldte hovedordnings-
element. Dette er ikke altid så gennemskueligt for udenfor-
stående, så for at lette på det, starter jeg min udformning
af den enkelte titelindførelse med hovedordningselementet.
(Normalt er det første forfatters efternavn; men ved en ud-
giver er det første ord i titlen).

   Til slut vil jeg udtrykke mit håb om, at denne biblio-
grafi vil kunne udbrede kendskabet til RUB's samlinger på
dette område, samt medvirke til arbejdet med at bygge bro
mellem den rene og den anvendte matematik.

                    Else Høyrup,
                    Roskilde Universitetsbibliotek,
                    august 1982.

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N A V N E R E G I S T E R

Melli, P.: 46

Melzak, Z.A.: 4

Micali, A.: 33

Mickle, M.H.: 19, 42

Millham, C.B.: 57

Moeschlin, O.: 52

Monaco, R.: 25, 28

Montroll, E.W.: 35

Morgan, K.: 24

Mosteller, F.: 9

Munck, I.M.E.: 56

Murakawa, H.: 3o

Murray, J.D.: 25, 32

Murthy, D.N.P.: 4, 6, 36

Müller, N.: 48

Nagase, H.: 43

Nakagawa, K.: 25

Naruoka, M.: 25

Nauda, A.: 42

Navon, I.M.: 41

Nelder, J.A.: 17

Neter, J.: 13

Nicholson, H.: 26

Nihoul, J.C.J.: 4o

Niss, M.: 51

Nordbeck, S.: 39

Norman, M.F.: 55

O'Carrol, M.: 57

O'Muircheartaigh, C.A.: 47

Oke, K.H.: 5, 7, 28

Okubo, A.: 36

Olinick, M.: 4

Olsen, M.: 37

Ord, J.K.: 13

Orsi, A.P.: 28

Owen, A.: 4o

Page, N.W.: 6

Paiva, M.: 34

Parkin, A.: 47

Paschentis, S.N.: 1o

Patil, G.P.: 13, 36

Payne, C.: 47

Pentzaropoulos, G.C.: 19

Petri, P.A.: 53

Piehler, J.: 16

Pielou, E.C.: 36

Pinker, A.: 7

Pliquett, F.: 3o

Pollard, J.H.: 49

Potuček, J.: 32

Powell, T.M.: 4o

Prasad, B.: 43

Prasad, T.: 13, 14

Protomastro, G.P.: 7

Puckett, R.: 52

Raggett, G.F.: 37

Rao, A.R.: 11

Rao, V.V.S.: 38

Rasmussen, H.: 41

Ray, A.: 45

Reddy, P.B.: 13

Rees, D.E.: 4o

Richter-Dyn, N.: 31

Rickenbacher, R.: 56

Rinaldi, S.: 39

Rizzi, G.: 26

Roberts, F.S.: 9

Vogt, (W.)G.: 19, 42

Wallace, M.D.: 54
Walter, C.: 32
Walters, C.: 39
Waltman, P.: 37
Wang, H.: 5
Wasserman, W.: 13
Watanabe, M.: 41
Waters, W.E.: 36
Weeks, F.: 29
West, B.J.: 48
West, J.V.R.: 2o
Wille, S.Ø.: 24, 34
Williams, H.P.: 17, 55
Worm Nielsen, N.H.: 46
Wysk, R.A.: 55

Yates, R.E.: 5
Yeh, R.T.: 17, 18
Yeshurun, S.: 34

Zeeman, E.C.: 38
Zeigler, B.P.: 2o
Zielinski, C.: 49
Zotos, J.: 25

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