

**LONDON MATHEMATICAL  
SOCIETY**

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Joint Meeting with the

**EDINBURGH MATHEMATICAL  
SOCIETY**

DR. A. S. WASSERMANN (Glasgow)

**CLASSES OF WELL-BEHAVED  $C^*$ -ALGEBRAS**

PROFESSOR M. F. ATIYAH (Oxford)

**THE YANG-MILLS EQUATIONS, MORSE  
THEORY AND THE WEIL CONJECTURES**

**Friday, 19 January, 1979, at 3.30 p.m.**

**Room L101, Merz Court**

**University of Newcastle upon Tyne**

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All interested are very welcome

Tea will be served at 4.30 p.m. and there will be a  
buffet dinner at 7.00 p.m. (see p. 2)

# LMS NEWSLETTER

No. 55

January 1979

## DATES OF SOCIETY MEETINGS

Friday, 19 January 1979, Newcastle, Joint meeting with E.M.S. (see p. 1).

Friday, 16 March 1979, Burlington House, Naylor Lecturer—Dr B. J. Mason.

Friday, 18 May—Saturday, 19 May 1979, Birmingham.

Friday, 15 June 1979, Burlington House Hardy Lecture.

London meetings will be held in the Geological Society's Rooms, Burlington House, Piccadilly. Council meetings will be held in conjunction with all the above meetings except that on 18 May 1979. Council will meet in London on 11 May 1979.

D. B. SINGMASTER

## JOINT EMS AND LMS MEETING

This meeting (details on p. 1) will be held in Merz Court, University of Newcastle upon Tyne. Merz Court is a modern building in Claremont Road just south of the junction with Queen Victoria Road. Visitors arriving at Central Station should take a bus (routes 45, 46 or 47) to Barras

Bridge, opposite the Civic Centre. For those who prefer to walk up through the City—follow Grainger Street to the Grey Monument, right for fifty yards, and then left up Northumberland Street. The walk takes about 20 minutes.

B. E. JOHNSON

## SOCIETY DINNER

A buffet dinner will be served in the Buttery, Merz Court, University of Newcastle at 7.00 p.m. on Friday, 19 January at a cost of £4.50 per person (wine included). Would those wishing to attend please book by sending a cheque (payable to B. E.

Johnson) for the appropriate amount to Dept. of Pure Mathematics, Merz Court, The University, Newcastle upon Tyne, NE1 7RU to arrive by 8 January 1979, if possible.

B. E. JOHNSON

## TREASURER'S REPORT 1977/78

Once again I can report a very satisfactory year on the financial side of the Society's affairs. To begin with the capital side of the accounts, the market value of the Society's portfolio has risen from £208,794 to £277,760. This includes £47,056 of new money, taken from last year's surplus, and after allowing for that, the increase in market value comes out at 9.3%. As well as these Stock Exchange securities the Society is the owner of Royal Oak Farm, which stands in the books at the purchase price of some £65,000. Finally there are substantial bank deposits, so that the total value of the Society's assets is not far short of £400,000, bringing in an annual return of approximately £20,000.

Turning to the income and expenditure account, the surplus for 1977/8 is no less than £70,370, as compared with £58,303 for

the previous session. Over three quarters of this is due to the Society's publishing activities, which continue to flourish. In view of this situation, Council has decided that, with one exception to be mentioned in a moment, all subscription rates can be maintained at the present level for the coming year. Needless to say, costs of various kinds are continuing to rise and in taking this decision Council has been aware that it would mean a considerably reduced surplus at the end of the next session.

The exception is Russian Mathematical Surveys, published jointly with the British Lending Library. The Russian journal of which this is a translation contains a section of short papers, and it was recently agreed that these were well worth translating along with the survey articles. It was therefore decided to extend the translation so as



to include this additional material, and a 10% increase in the subscription rate has been introduced to offset the extra costs.

Another important series of translations from the Russian appears as the Transactions of the Moscow Mathematical Society. The LMS has been associated with this series since it was started, some ten years ago, but the real responsibility has lain with our sister Society the AMS. During the year the two Societies entered into financial partnership over this publication, which will henceforth be much more of a joint venture. One of the advantages of this to LMS members, is that they can now subscribe to TMMS at the same rates as AMS members, which represents a considerable saving. Agreement was also reached during the year with the Cambridge Philosophical Society for members to be able to subscribe to the Mathematical Proceedings at concessionary rates.

Readers of the Newsletter may have seen certain notices placed by the Charity Commission during the past year. These

were concerned with the establishment of an Investment Pool for the various Trust and Special Funds, in which each will enjoy an appropriate share. This new arrangement will enable the investment of these Funds to be managed with greater efficiency. In this context I might perhaps mention that Council has decided to increase the value of the majority of the Society's prizes. Most of the Trust Funds represent the endowment for particular prizes. However one, the Cunningham, is for the encouragement of Number Theory and this was drawn on during the year for a contribution of £500 towards the expenses of the Hardy Centenary Meeting.

Members will, I feel sure, approve of the greatly increased programme of mathematical events which the Society has organized and sponsored in recent years. In many cases generous financial support is provided by, outside bodies, most notably the Science Research Council. To all of these Council, on behalf of the Society, is most grateful.

I. M. JAMES

## MEETINGS AND MEMBERSHIP SECRETARY'S REPORT 1977/78

On 1 November 1977, we had about 1,300 (ordinary and reciprocity) members, about 43 institutional members and 25 Honorary members. We have since elected 133 members and one Honorary member—Professor H. S. M. Coxeter. One Honorary member, Professor K. Gödel, died during the year. On 1 November 1978, the membership stood at 1,371 members, 41 institutional members and 25 Honorary members.

We had seven meetings during the past session. Professors Halberstam and S. J. Taylor spoke at the November Annual General Meeting. In December, we held a very popular two-day Hardy Centenary Meeting at Cambridge. Professors Hayman,

Carleson, Bosanquet, Kahane, Wright, Baker and Selberg spoke. Professors Harrison and Hofmann spoke in January. Dr. Haydon and Professor Milnor spoke in March. In May, there was an experimental weekend meeting at Gregynog on 'Representations of Algebras'. In June, Professor Banchoff spoke and presented his films and Professor James delivered the Whitehead Lecture. Professor Browder and Dr Wood spoke in October.

I would like to take this opportunity to remind members that we are always open to suggestions for speakers, meetings and other Society activities.

D. B. SINGMASTER

## COUNCIL SECRETARY'S REPORT 1977/78

Apart from a number of small conferences to which the Society gave so-called 'seed money' during the last year it sponsored an Instructional Conference on Analytic Sets at University College, London; and three Durham Symposia on The Mathematical Theory of non-linear Problems in Quantum Mechanics and Quantum Optics, Homological and Combinatorial Techniques in Group Theory, and Free and Moving Boundary Problems in Heat Flow and Diffusion. We have also moved some of our

duplicate periodicals from the UCL Library to the Collingwood Library, Durham, on permanent loan.

During the session Council awarded the Senior Berwick Prize to Sir Edward Wright and the Whitehead Prize to Professor I. M. James.

A number of appointments of Society representatives were made, including: Professors James, Griffiths and Wall to European Science Foundation committees, Dr. Edwards and Professor Halberstam to



edit the Monographs Series, Professor James to edit the Lecture Notes Series with an international Advisory Board. Professors Kingman and Williamson to the British National Committee for Mathematics, Professor Fraenkel to the British National Committee for Theoretical and Applied Mechanics. Professor Cooper to the CNAA Mathematics and Statistics Committee. I should also mention that, Mrs Margaret Nicholas has taken over as Journal Executive Editor from Mrs Crompton; and I would like to take this opportunity of thanking on the Society's behalf those who represent the Society on all

sorts of different Committees or undertake other chores for the Society.

We held a very successful Society reception in Helsinki (and indeed are grateful to Academic Press, Oxford University Press, Cambridge University Press and Hodgsons for supporting it financially), we have appointed a Committee to edit the Collected Works of J. E. Littlewood, Professor Johnson will be continuing as Newsletter Editor, we have arranged for the India Office Library to restore the Receipts of the Mathematical Society, and we arranged for the repair of a wall at our farm.

D. A. BRANNAN

## EUROPEAN MATHEMATICAL COUNCIL

Following an initiative by the European Science Foundation, discussions have been taking place between representatives of various European Mathematical Societies about the formation of some kind of joint body. These culminated at a meeting in Helsinki just before the International Congress, which Professor Halberstam attended on behalf of the LMS.

After a useful discussion it was agreed to recommend the formation of a European Mathematical Council (not a formally constituted Federation, as originally proposed), and it is hoped that most of the

European Societies will give their support to this new body. The LMS Council, in particular, has already agreed to participate and has appointed me to represent the Society in this connection.

It is expected that the EM Council will play a useful role in co-ordinating and encouraging various activities, such as conferences, publications etc. An occasional newsletter is being produced and information derived from this will appear in the LMS Newsletter when appropriate.

I. M. JAMES

## PERSONAL ITEMS

Professor Gian-Carlo Rota has been elected a Fellow of the American Association for the Advancement of Science. Professor Dana S. Scott has received a John Simon Guggenheim Fellowship for 1978. Honorary Members I. M. Gelfand and C. L. Siegel were jointly awarded the Wolf Prize in Mathematics at the Knesset in

Jerusalem on April 10. This is the first year in which the Wolf Foundation has awarded prizes and it has given prizes in mathematics, physics, chemistry, medicine and agriculture. Professor Abolghassem Ghaffari has been elected a Fellow of the American Association for the Advancement of Science.

D. B. SINGMASTER

## THE INTERNATIONAL MATHEMATICAL OLYMPIAD

Great Britain has competed in the International Mathematical Olympiad since 1967. Before that the competition was only open to East European countries, but since then the number of Western countries has increased and they are now in the majority. After twelve years it seemed reasonable that Great Britain should be the host country and when the D.E.S. agreed to meet half the cost, the invitation was issued for 1979. The rest of the cost is being met by various educational bodies and overall responsibility is with a committee of which Dr Thwaites is Chairman. Each team consists of eight pupils, and two adults who form a jury to set and mark the papers.

The first stage of choosing the British team, is a multiple choice paper which is taken by about 10,000 pupils. From these about 150 are selected to take the British Mathematical Olympiad paper—6 questions in 3½ hours—and about 20 of these do a further selection test to provide the 8 pupils who will represent the country. In the last 11 years, 41 schools have contributed one or more pupils for the teams.

For some years Dr Robert Lyness has been responsible for the B.M.O. and Further Test and he also organised a correspondence course for pupils (and some teachers) sending two problems and the solution to the previous problems each month to

people who ask for them (stamped addressed envelope please!). This has generated interest in the competitions as well as raising the standard of the team so that in the last three years we have been second or third.

We are expecting teams from twenty countries to be in London from 2-9 July and we shall need mathematicians who

speaking a variety of languages to act as co-ordinators. The papers will be taken on 4 and 5 July and for the rest of the week, excursions will be arranged for the pupils while the jury mark the papers. There will be two days in Oxford for everyone at the end.

M. HAYMAN

## SYMPOSIUM ON MATHEMATICAL PROGRAMMING

The tenth international symposium on Mathematical Programming will be held in Montreal on 27-31 August 1979. The meeting will cover all aspects of mathemati-

cal programming. Further details can be obtained from the Symposium Secretariat, 772 Sherbrooke Street West, Montreal, Quebec, Canada H3A 1G1.

## DIFFEOMORPHISMS AND FOLIATIONS

A meeting will be held at the University of Warwick 8-14 July 1979. Funds are available to assist with expenses of members of staff of UK institutions of higher education.

Speakers will probably include: G. Hector, M. R. Herman, A. B. Katok, J. Moser, J. Plante, V. Poenaru, F. Sergeraert.

In order to reserve accommodation, or be considered for the payment of expenses, application forms must be received before 12th February 1979. Further information and application forms are available from Professor D. B. A. Epstein, Mathematics Institute, University of Warwick, Coventry.

## CURRENT PROBLEMS IN GENERAL RELATIVITY

A working seminar on the above subject will take place in the Dublin Institute for Advanced Studies from 2-6 July 1979. The emphasis of the workshop will be on equations of motion and related topics. Among those who have accepted invitations to participate are J. L. Anderson (New Jersey); W. G. Dixon (Cambridge); J.

Ehlers (Munich); R. A. Matzner (Texas); R. F. O'Connell (Louisiana); I. Robinson (Texas). Enquiries should be directed to The Director, School of Theoretical Physics (Working Seminar 1979), Dublin Institute for Advanced Studies, 10 Burlington Road, Dublin 4, Ireland.

## MATHEMATICAL MODELLING OF ENERGY SYSTEMS

A N.A.T.O. advanced study institute on the use of modelling techniques for national energy policy analysis and planning will be held on 9-23 June 1979, at Boğaziçi University, Istanbul. Invited speakers include G. B. Dantzig (Stanford), R. J. Deam (London), J. Debanne (Ottawa), L. Ervik (Michelsen Research Institute), D. Finon

(Grenoble), W. Haefele (IIASA, Austria), I. Kavrak (Boğaziçi), W. Nordhaus (Washington DC), A. J. Surrey (Sussex), A. Voss (KFA-Jülich, FRG). Further details can be obtained from the Director, Professor I. Kavrak, Boğaziçi University, P.K.2 Bebek-Istanbul, Turkey.

## AUTOMATA, LANGUAGES AND PROGRAMMING

The Sixth International Colloquium on Automata, Languages and Programming will be held on 16-20 July in the Technical University of Graz, Austria. Invited speakers include R. Karp and G. Rozenberg.

Typical topics of interest include: Automata Theory, Formal Language Theory, Mathematical Aspects of Programming Languages, Computability Theory, Com-

putational Complexity, Analysis of Algorithms, Semantics of Programming Languages and Data Bases, Theory of Data Structures, Program Verification. Further details can be obtained from the Chairman of the Program Committee, H. Maurer, Institut f. Informationsverarbeitung Techn. Universität Graz, Steyregasse, 17, A-8010 Graz/Austria.



## VISITORS TO IHES

The following are visiting the IHES this academic year.

<i>Name</i>	<i>Home Institution</i>	<i>Name</i>	<i>Home Institution</i>
Dippolito P.	Princeton	Rauch J.	Ann Arbor
Foras C.	Bucarest	Shinoda K.	Tokyo
Marchildon L.	Yale	Titus C.	Ann Arbor
Misiurewicz M.	Warsaw	Trauber P.	Princeton
Ogus A.	Berkeley		

## MATHEMATICS: THEORY INTO PRACTICE

The next Biennial Conference of the Australian Association of Mathematics Teachers will be held at the Australian National University, Canberra on 14-18 January 1980. Principal speakers include

S. J. Bezuska, E. E. Biggs, H. B. Griffiths, P. R. Trafton. Further details can be obtained from The Mathematics Consultant, A.C.T. Schools Authority, P.O. Box 20, Civic Square, A.C.T. Australia 2608.

## UNIVERSITY OF CAMBRIDGE: ADAMS PRIZE

The Adams Prize is open to all who have been admitted to a degree of Cambridge University. The subject selected for the period 1979-80 is 'Theories of wave generation, propagation, interaction and stability'. The amount available for prizes is

about £2,180 and the closing date is 31 December 1980. Fuller details are obtainable from the Secretary, Faculty Board of Mathematics, Department of Applied Mathematics and Theoretical Physics, Silver Street, Cambridge CB3 9EW.

## BOOKS RECEIVED FOR REVIEW IN THE BULLETIN

- The Phenomenon of Science:** V. F. Turchin: pp. 348, \$21·90. (Columbia U.P.).
- Estimates for the J. Neumann Problem:** P. Greiner and E. Stein: pp. 194, £4·50. (Princeton U.P.).
- Waves (2nd ed.):** C. Coulson and A. Jeffrey: pp. 229, £3·95. (Longmans).
- Use of Mathematical Literature:** A. R. Dorling: pp. 241, £12·00. (Butterworths).
- Number Words and Number Systems: a cultural history of numbers:** K. Menninger: pp. 480, £7·00. M.I.T. Press).
- The Collected Papers of Alfred Young, 1873-1940:** G. deB. Robinson: pp. 684, \$10·00. (Toronto U.P.).
- ISNM 22: Mathematics, Vol. 2 (Basic Numerical):** J. Todd: pp. 216, SwFrCs. 48.—. (Birkhauser Verlag).
- An Introduction to Linear Algebra:** A. O. Morris: pp. 180, £7·50. (Van Nostrand).
- Supercompactness and Wallman Spaces:** J. Van Mill: pp. 238, Dfl. 29.—. (Stichting Mathematisch Centrum).
- Tree-like Spaces and Related Connected Topological Spaces:** A. E. Brouwer: pp. 209, Dfl. 14.—. (Stichting Mathematisch Centrum).
- Introduction to Riesz Spaces:** E. De Jonge and A. C. M. van Rooij: pp. 229, Dfl. 24.—. (Stichting Mathematisch Centrum).
- Catastrophe Theory: Selected Papers 1972-77:** E. C. Zeeman: pp. 675 \$26·50/£14·50. (Addison Wesley).
- The Theory of Information and Coding: A Mathematical Framework for Communication:** Robert J. McEleiece: pp. 302, \$21·50. (Addison Wesley).
- Symmetry and Separation of Variables:** Willard Millar Jr.: pp. 285, \$21·00. (Addison Wesley).
- Numerical Analysis:** L. W. Johnson and R. D. Riess: pp. 370, £6·00. (Addison Wesley).
- Complex Analysis:** S. Lang: pp. 321, £12·00. (Addison Wesley).
- Stochastic Problems in Dynamics:** B. Clarkson (ed.): pp. 566, £12·00. (Pitman).
- Hilbert Space Methods in Partial Differential Equations:** R. Showalter: pp. 196, £14·00. (Pitman).
- Tensor Geometry:** C. Dodson and T. Poston: pp. 598, £19·00. (Pitman).
- Edge-Colouring of Graphs:** S. Fiorini and R. Wilson: pp. 149, £6·50. (Pitman).
- Nonlinear Analysis and Mechanics:** R. Knops: pp. 241, £7·00. (Pitman).
- Catastrophe Theory and its Applications:** T. Poston and I. N. Stewart: pp. 490, £25·00. (Pitman).

- Numerical and Quantitative Analysis:** G. Fichera: pp. 208, £14·00. (Pitman).
- Explicit A Priori Inequalities with Applications to Boundary Value Problems:** V. G. Sigillito; pp. 103, £5·50. (Pitman).
- Functional Analysis: Surveys and Recent Results:** F. D. Bierstedt and B. Fuchssteiner: pp. 290, Dfl. 70·00. (North Holland).
- C\* Algebras:** J. Dixmier: pp. 496, Dfl. 120·00. (North-Holland).
- Infinite Dimensional Holomorphy and Applications:** Mario C. Matos (ed.); pp. 434, Dfl. 75·00. (North-Holland).
- Handbook of Mathematical Logic:** Jon Barwise; pp. 1030, Dfl. 190·00. (North-Holland).
- Automated Theorem Proving: A Logical Basis:** D. W. Loveland: pp. 432, Dfl. 100·00. (North-Holland).
- A Course in Mathematical Logic:** J. Bell and M. Machover: pp. 599, Dfl. 50·00. (North-Holland).
- Rational Behaviour:** J. C. Harsanyi: pp. 314, £15·00. (Cambridge University Press).
- Complex Analysis and Algebraic Geometry:** W. L. Bailey Jr. and T. Shioda: pp. 401, £28·00. (Cambridge University Press).
- Pontryagin Duality and the Structure of Locally Compact Abelian Groups:** S. Morris: pp. 128, £4·95. (Cambridge University Press).
- Models of Spatial Processes:** A. Getis and B. Boots: pp. 198, £9·75. (Cambridge University Press).
- The Mathematical Work—Charles Babbage:** J. Dubbey: pp. 235, £12·50. (Cambridge University Press).
- An Introduction to Stochastic Processes with Special Reference to Methods and Applications:** M. Bartlett: pp. 387, (3rd ed.); £12·50. (Cambridge University Press).
- The Price Index:** S. Afriat: pp. 187, £7·50. (Cambridge University Press).
- Introduction to Group Characters:** W. Ledermann: pp. 174, £9·50/£3·30. (Cambridge University Press).
- Mathematical Cosmology: An Introduction:** Peter T. Landsberg and David A Evans: pp. 309, £6·95. (Oxford University Press).
- The Numerical Treatment of Integral Equations:** Christopher T. H. Baker: pp. 1034, £22·50. (Oxford University Press).
- Lectures on Nonlinear Differential Equation Models in Biology:** J. D. Murray: pp. 370, £9·75. (Oxford University Press).
- Transcendence Theory: Advances and its Applications:** A. Baker and D. W. Masser: pp. 236, £11·00. (Academic Press).
- Institutiones Mathematicae Vol. 1: Linear Differential Equations and Control:** R. Conti (ed.): pp. 174, £6·00. (Academic Press).
- Institutiones Mathematicae Vol. 2: Applications croissantes et equations d'évolutions dans les Espaces de Banach:** G. da Prato (ed.): pp. 146, £6·00. (Academic Press).
- Topos Theory:** P. T. Johnstone: pp. 367, £17·50. (Academic Press).
- Topics in Numerical Analysis (Royal Irish Academy Conference):** J. H. Miller: pp. 476, £23·00. (Academic Press).
- Extensions of Linear Quadratic Control Optimization and Matrix Theory:** D. H. Jacobson: pp. 217, £6·50. (Academic Press).
- Theory of Modules:** A. Solian: pp. 420, £12·75. (Wiley).
- Urn Models and their Application:** N. Johnson and S. Kotz: pp. 402, £16·45. (Wiley).
- Applied and Computational Complex Analysis:** P. Henrici: pp. 662, £2·40. (Wiley).
- Solutions of ill-posed problems:** A. N. Tikhonov and V. Y. Arsenin: pp. 258, £14·80. (Wiley).
- Mathematics, Statistics and Systems for Health:** N. Bailey: pp. 222, £7·50. (Wiley).
- Contractors and Contractor Directions: Theory and Applications: a New Approach to Solving Equations (Lecture Notes Vol. 32):** M. Altman: pp. 304, SFrs. 80.—. (Marcel Dekker).
- Decomposition and Dimension in Module Categories (Lecture Notes Vol. 33):** Jonathan S. Golan: pp. 200, SFrs. 62.—. (Marcel Dekker).
- Numbers of Generators of Ideals in Local Rings (Lecture Notes Vol. 35):** Judith D. Sally: pp. 112, SFrs. 38.—. (Marcel Dekker).
- Algebraic Number Theory (Series of Monographs and Textbooks Vol. 41)** Robert L. Long: pp. 208, SFrs. 62.—. (Marcel Dekker).
- Integrals and Measures (Pure and Applied Maths Monographs Vol. 42):** Washek F. Pfeffer: pp. 280, SFrs. 65.—. (Marcel Dekker).



- Measure and Integral: An introduction to Real Analysis (Series of Monographs Vol 43):** Richard L. Wheeden and Antoni Zygmund: pp. 288, SFrs. 54.—. (Marcel Dekker).
- Probability Measures on Locally Compact Groups:** H. Heyer: pp. 531, DM 120.—. (Springer-Verlag).
- Elliptic Partial Differential Equations of Second Order:** D. Gilbarg and N. S. Trudinger: pp. 401, DM 78.—. (Springer-Verlag).
- Classical Banach Spaces I: Sequence Spaces:** J. Lindenstrauss and L. Tzafriri: pp. 188, DM 52.—. (Springer-Verlag).
- Proof Theory:** K. Schütte (trans. by J. N. Crossley): pp. 299, DM 74.—. (Springer-Verlag).
- Lecture Notes in Mathematics:** (ed. by A. Dold and B. Eckmann): vols. 607–623 (Springer-Verlag).
- Lecture Notes in Physics:** (ed. J. Ehlers, K. Hepp, R. Kippenhahn, H. A. Weidenmüller and J. Zittartz) vols. 64–68. (Springer-Verlag).
- Grad. Texts in Mathematics:** (eds. F. W. Gehring and C. C. Moore): Vol. 48–50. (Springer-Verlag).
- Number Fields:** D. A. Marcus: pp. 279, DM 26·10. (Springer-Verlag).
- Differential Forms: A Heuristic Introduction:** M. Schreiber: pp. 147, DM 21·40. (Springer-Verlag).
- Stochastische Methoden:** K. Krickeberg and H. Ziezold: pp. 201, DM 28.—. (Springer-Verlag).
- Endliche Gruppen:** H. Kurzweil: pp. 187, DM 24.—. (Springer-Verlag).
- Wahrscheinlichkeitstheorie:** P. Ganssler and W. Stute: pp. 418, DM 36.—. (Springer-Verlag).
- Algebraic Topology:** W. S. Massey: pp. 261, Vol. 56, DM 32·30. (Springer-Verlag).
- Game Theory for Economist and Systems Scientists:** N. N. Vorob'ev (trans. by S. Kotz): pp. 178, DM 38·20. (Springer-Verlag).
- Stochastic Processes: A Survey of the Mathematical Theory:** J. Lamperti: pp. 266, DM 21·40. (Springer-Verlag).
- Inverse Problems in Quantum Scattering Theory:** K. Chadan and W. Beiglbock: pp. 344, DM 67·70 (Springer-Verlag).
- Structural Pattern Recognition:** T. Pavlidis: pp. 302, DM 43.—. (Springer-Verlag).
- Proceedings of the International Workshop on Synergetics, Bavaria, May 1977:** (ed. by H. Haken): pp. 274, DM 58.—. (Springer-Verlag).
- Assembler IV: Supplement zum Lernprogramm:** H. Kramer: pp. 146, DM 21·80. (Springer-Verlag).
- Encounter with Mathematics:** L. Garding: pp. 270, DM 22·30. (Springer-Verlag).