

PUBLICATIONS

JANUARY 1986



INDIAN NATIONAL SCIENCE ACADEMY
BAHADUR SHAH ZAFAR MARG,
NEW DELHI

The Indian National Science Academy (INSA), formerly the National Institute of Sciences of India, was established in January 1935 with the object of promoting growth of science in India and harnessing scientific knowledge to national welfare. It was recognised as the premier scientific society representing all branches of science in India in October 1945. The Academy consists of Fellows and Foreign Fellows. The scientists are elected to the Fellowship of the Academy on the basis of their eminence in and contribution to science and technology.

OBJECTIVES:

- (a) To promote the development of natural knowledge in India including its practical application to problems of national welfare; to effect coordination between scientific academies, societies, institutions and government scientific departments and services;
- (b) To act as a body of scientists of eminence for the promotion and safeguarding of the interests of scientists in India and to represent internationally the scientific work of India;
- (c) To act through properly constituted National Committees in which other learned academies and societies will be associated as the National Research Council of India, for undertaking such scientific work of national and international importance as the Council may be called upon to perform by the public and by the government;
- (d) To publish such proceedings, journals, memoirs and other publications as may be found desirable;
- (e) To promote and maintain liaison between science and letters;
- (f) To do and perform all other acts, matters and things that may assist in, conduce to, or be necessary for the fulfilment of the above-mentioned aims and objects of the Academy.

The INSA was designated as the adhering organization in India to the International Council of Scientific Unions (ICSU) on behalf of the Government of

(contd. on last inner cover)

CONTENTS

About INSA Publications	1
Golden Jubilee Publications	3
INSA year book	6
Biographical Memoirs of Fellows of INSA	6
INSA Periodicals	7
History of Science Publications	8
Bulletins	12
Transactions	16
INSA Scientific Report Series	19
Popularization of Science Publications	19
INSA Monographs	19
Mathematical Tables Series	20
Progress of Sciences in India Series	20
Other Publications	21
How to Order	23

ABOUT INSA PUBLICATIONS

PROCEEDINGS

The first issue of the Proceedings of Academy, published in 1935 was devoted to History of the foundation of the Academy, the then National Institute of Sciences in India, its aims and objectives, provisional rules, proceedings of the inaugural meeting and inaugural addresses. It was bifurcated into two parts, viz., Part A (Physical Sciences) and Part B (Biological Sciences) published in alternate months. *The Part A* is an interdisciplinary journal in Physical Sciences devoted to publication of papers embodying results of original research in any branch of physics, chemistry, geology, biophysics, biochemistry, geochemistry, hydrology, meteorology, radio physics, soil physics, soil chemistry and oceanography. *Part B* is also an interdisciplinary journal in Life Sciences, devoted to publication of papers embodying results of original research in any branch of Life Sciences. The major emphasis of the journal is on publication of studies relating to physiology, cell biology, cytogenetics, genetics, even ecology, biochemistry, microbiology, pathology, endocrinology, physiology of reproduction, etc.

INDIAN JOURNAL OF PURE AND APPLIED MATHEMATICS

This journal, brought out since January 1970 brings together the best of research work done in the field of pure and applied mathematics. Started as a quarterly journal, it is now published monthly since 1973.

INDIAN JOURNAL OF HISTORY OF SCIENCE

IJHS brought out since 1966, brings together the results of studies and researches in various fields of History of Science from prehistoric period to modern times. The only periodical of its kind in the country, it was started as half-yearly and is now published quarterly.

*IN
DE

Pr
fr
co

YE

Fr
ye
of
po
sci
nat
po
etc
acc

OT

Ove
bod
Syn
Ser
His
Ind
Oth
ruta
mat
Med
tras
com
Aca
Pres
(19
Sci
(19

*Res

***INTERNATIONAL SCIENCE NEWS AND INSA DELEGATION REPORTS**

Primarily devoted to publication of reports received from the Indian Scientists attending international conferences. It has been started from 1983.

YEAR BOOK

From 1960, it has been brought out in January every year. The year book lists the activities of various units of the Academy, the activities of the Council, symposia, seminar held in the year, the names of the scientists provided assistance for attending international conferences, the detail of Fellowship, composition of various Committees, calendar of events, etc. The year book also gives a statement of the accounts and rules and regulations of the Academy.

OTHERS

Over the years, the Academy, has published several books under various heads, viz., "Proceedings of Symposia", "Monographs" "INSA Scientific Report Series", "Popularization of Science", Publications on History of Sciences. A Concise History of Science in India is the first authoritative work in this direction. Other publication include "Caraka Samhita", "Susruta Samhita", 'Aryabhatiya', Bibliography of source material on History of Science and Technology in Medieval India, and a monograph on "Sulbha Sutras". During the Golden Jubilee Year 1984 "A compendium of Fellows of Indian National Science Academy-biographical notes, Addresses by INSA Presidents (1935-1984), INSA Medal Lectures (1950-1983), Science in India —A changing profile, Science Academy Medals for Young Scientists (1974-1983) were brought out.

*Restricted circulation

Publications brought out in the Golden Jubilee Year, 1984-1985

**†1. Fellows of the Indian National Science Academy: Past and Present —
*Biographical Notes: 1935-1984:***

600 pp, Rs. 110.00, US \$ 150.00.

A first ever compendium of eminent men of science admitted to Fellowship of the Academy since its inception in 1935, giving brief biographical sketches of 892 Fellows (including 376 since deceased) alongwith their major contributions to science.

Also listed are 120 foreign scientists elected to the Fellowship.

An authentic reference guide on India's distinguished men of Science.

**†2. Addresses by INSA Presidents —
1935-1984:**

458 pp, Rs. 350.00, US \$ 150.00.

A treasure of ideas and discoveries representing milestones in the progress of science and technology in the Indian sub-continent over the last 50 years.

**†3. INSA Medal Lectures —1950-1983:
(Volume I & II)**

Vol I, 874 pp, Rs. 300.00, US \$ 100.00.

Vol II, 632 pp, Rs. 300.00, US \$ 100.00.

Set of two volumes Rs. 500.00, US \$ 200.00.

4. Science in India —A Changing Profile

Edited by S K Mukherji, FNA and B V Subarayappa, 1984.

114 pp, Rs. 20.00 US \$ 10.00.

A perspective on the major aspects of the scientific tradition in India through ages, the advent and

growth of western science in India before 1947 and the manifold developments in science and technology science independence.

†5. Science in India—50 years of the Academy

Edited by C N R Rao, FNA and H Y Mohan Ram, FNA

Rs. 150/-

A. Perspective Report Series

1. **Solid State Chemistry**—C N R Rao.
57 pp, Rs. 8.00 US \$ 3.00
2. **Liquid Crystals**—S Chandrasekhar.
19 pp, Rs. 4.00, US \$ 1.50
3. **Perspective in Organometallic Chemistry**—
R C Mehrotra and G Srivastava.
34 pp, Rs. 6.00, US \$ 2.00
4. **The Monsoons-A Perspective**—P K Das.
52 pp, Rs. 7.50, US \$ 2.50
5. **Basic Building Block Began (···) Big Bang
(An Overview of the Physics of Elementary
Particles)**—A N Mitra,
41 pp, Rs. 6.00 US \$ 2.00
6. **Environmental Chemical Mutagenesis**—
Archana Sharma.
53 pp, Rs. 25.00 US \$ 8.50
7. **The Dharwar Craton**—C S Pichamuthu and R
Srinivasan.
34 pp, Rs. 7.00 US \$ 2.50
8. **Perspectives in Organic Synthesis**—G Mehta and M Nagarajan.
60 pp, Rs. 7.00 US \$ 2.50

†Distributed by UBSPD, New Delhi

9. **Mathematical Models of Environment**—
J N Kapur.
23 pp, Rs. 5.00 US \$ 2.00
10. **Genetics and Molecular Biology of Rhizobia**—N K Notani.
49 pp, Rs. 8.00 US \$ 3.00
11. **Phylogenetics Perspectives of Protists**—
Barnabas and Barnabas.
Rs. 12.00, US \$ 4.00
12. **Indian IGY Programme-Achievements**—
A P Mitra.
Rs. 50.00, US \$ 17.00

B. Status Reports

1. **Nutrition and Brain**—Eds., P N Tandon and
Gomathy Gopinath.
93 pp, Rs. 20.00 US \$ 7.00
2. **Fifty Years of Radio Science in India**—A P
Mitra.
26 pp, Rs. 8.00 US \$ 3.00
3. **Magnetism**—N S Satya Murty and L Madhav
Rao
Rs. 25.00, US \$ 8.50
4. **Optical Fibres for Communication**—G S Sa-
nyal and A Alphones
Rs. 6.00, US \$ 2.00

C. Reports of National Relevance

1. **Rice in 2000 AD**—M S Swaminathan.
22 pp, Rs. 5.00 US \$ 2.00
2. **Indian Agriculture in 2000 AD**—H K Jain .
Rs. 10.00, US \$ 4.00
3. **Antractica (unknown continent of unex-
plored wealth)**—S Z Qasim and L U Joshi.
21 pp, Rs. 7.00 US \$ 2.50

INSA YEAR BOOK

The Year Book of the Academy gives history, aims and objectives, public and other responsibilities of the Academy. The account of the present Fellowship (including Foreign Fellows), Council activities, Local Chapters and other activities of the Academy such as Inter-Academy Exchange Programme, Indo-Soviet Collaborative programmes, role of the Academy in International Council of Scientific Unions (ICSU), scientific research in basic Sciences support to International/National seminars/symposia etc. are the highlights of the year book. A brief account of the medals, lectures and prizes, library, publications, rules and regulations, annual report and accounts of the Academy is also included. First issued in the year 1960.

Year Book 1984 Rs. 50.00, US \$ 18.00.

Year Book 1985 Rs. 65.00, US \$ 22.00.

BIOGRAPHICAL MEMOIRS OF THE FELLOWS OF THE INDIAN NATIONAL SCIENCE ACADEMY

Contains biographical memoirs of the deceased Indian scientists in various disciplines who were Fellows of the Indian National Science Academy.

The memoirs are, contributed by scientists, in most cases close professional associates, who were intimately connected with the life and scientific career of the scientist.

With the intelligent laymen rather than the specialist in mind, the authors give a simple description of the scientist's contributions to new knowledge. To help specialists, an exhaustive bibliography of the scientists' work is given with the memoirs.

		Rs.	\$
Vol. I	pp 186 with 17 plates	24.00	8.00
Vol. II	pp 130 with 14 plates	20.00	8.00

Vol. III	pp 112 with 12 plates	20.00	7.00
Vol. IV	pp 186 with 17 plates	40.00	14.00
Vol V	pp 118 with 13 plates	30.00	10.00
Vol. VI	pp 88 with 11 plates	27.00	9.00
Vol. VII	pp 201 with 13 plates	75.00	25.00
Vol. VIII	pp 204 with 16 plates	75.00	25.00
Vol. IX	pp 134 with 17 plates	75.00	25.00
Vol. X	in Press		

PERIODICALS

The periodicals of the Academy enjoy the association of all the senior workers in the country in the fields covered, in various capacities as members of the Editorial Board, referees and contributors.

PROCEEDINGS OF THE INDIAN NATIONAL SCIENCE ACADEMY.

Part A (Physical Sciences), bimonthly.
(Jan., March, May, July, Sept., Nov.)

Part B (Biological Sciences), bimonthly.
(Feb., April, June, Aug., Oct., Dec.)

INDIAN JOURNAL OF PURE AND APPLIED MATHEMATICS (Monthly).

INDIAN JOURNAL OF HISTORY OF SCIENCE (Quarterly).

*INTERNATIONAL SCIENCE NEWS & INSA DELEGATION REPORTS

*INSA NEWS

*Not for sale. Limited circulation.

PUBLICATIONS OF HISTORY OF SCIENCE IN INDIA

	Rs.	\$
<p>1. Caraka Samhita: A Scientific Synopsis — P Ray and H N Gupta (Rev. Ed.) (1980) 124 pp. A scientifically classified account of the contents of Caraka Samhita, the medical treatise of ancient India.</p>	30.00	10.00
<p>2. A Bibliography of Sanskrit works in Astronomy and Mathematics — S N Sen with the research assistance of A K Bag and S R Sharma (1966) 258 pp. A bibliography of source materials indispensable for the study of history of astronomy and mathematics in ancient and medieval India.</p>	20.00	5.00
<p>3. Jahangir — The Naturalist — M A Alvi and A Rahman (1967) 140 pp. A study of Jahangir's scientific interests in the field of animals and plants and also in chemical technology, medicine and astronomy.</p>	20.00	3.60
<p>4. Fatullah Shirazi — M A Alvi and A Rahman (1968) 37 pp. A study of a sixteenth century Indian scientist of remarkable versatility.</p>	2.50	0.33
<p>5. Susruta Samhita: A Scientific Synopsis — P Ray, H N Gupta and M Ray (1980) 459 pp.</p>	108.00	36.00

The work gives a classified account in two parts, the first dealing with theories and practices of surgical treatments, and the second a classified account on living creatures, medicinal plant and animal substances of vegetable and mineral origin, medicinal and surgical terms, appliances and instruments, weights and measures etc.

6. **Sisyadhivrddhida Tantra of Lalla** —Bina Chatterjee
Part-I —Sanskrit Text. 10.
An important astronomical work in the pre-Bhaskara (II) Period. (1981) 280 pp. 45.00 15.00
Part II —English translation of the astronomical works of Lalla (1981) 340 pp. 45.00 15.00 11.
7. **Aryabhatiya of Aryabhata**
(Critically edited with translation and notes) —K S Shukla and K V Sharma (1976) 219 pp. 21.50 7.00
The volume forms a critical edition of Aryabhatiya based on original manuscripts and external testimonia (1976) 219 pp.
8. **Aryabhatiya of Aryabhata**
(with the Commentary of Suryadeva Yajvan) Ed. —K V Sharma (1976) 200 pp. 25.00 8.00
The volume comprises of critical edition of the Aryabhatiya with the elucidative commentary of Suryadeva Yajvan (b. 1191), based on original palm leaf manuscripts. 12.

9. **Aryabhatiya of Aryabhata**
 (with the Commentary of
 Bhaskara & Somesvara)
 Ed. —S K Shukla (1976)
 382 pp. 40.00 13.00
 The volume sets out the
 critical text of the
 Aryabhatiya with the earliest
 available commentary on the
 work by Bhaskara I (A.D.
 629) as supplemented by a
 later commentator
 Somesvara.
10. **Aryabhatiya** (with Hindi
 Translation and notes) —
 Ramnivas Ray (1976) 461
 pp. 25.00 8.00
11. **Rasarnavakalpa** (ed. &
 translated —Mitra Roy & B V
 Subbarayappa) (1976) 174
 pp. 25.00 5.00
 A sanskrit manuscript on
 Indian alchemy and iatro-
 chemistry, is a work of 11th
 Century A.D. As a part of the
 Rudrayamalatantra, it
 consists of alchemical
 processes and preparations
 relating to transmutation of
 base metals into noble metals
 and transubstantiation of
 human body on the one
 hand, and the symbolic or
 esoteric tantrik rites on the
 other.
12. **Science and Technology in
 Medieval India** —A
 bibliography of source
 materials in Sanskrit, Arabic
 and Persian —A Rahman, M
 L Alvi, S A Khan Ghori and K

- V Samba Murty (1982) 719 pp. 200.00 70.00
13. **Bibliography of the Works of Abul-Raihan-Al Biruni** (compiled by Ahmad Saeed Khan) (1982) 77 pp. 30.00 10.00
A compilation of the works and scientific thoughts of this great medieval scientist.
14. **The Sulbasutras** —S N Sen and A K Bag (1983) 293 pp. 85.00 30.00
The Sulbasutras are the manuals for the construction of altars for fire-sacrifices, an ancient cult fully established in the time of Samhitas. The origin of mathematics in India lies embedded in these ancient priestly practices. The book presents the critical texts and translation of four Sulbasutras.
15. **Ancient Glass and India** — S N Sen and Mamata Chaudhuri 100.00
16. **Scientific and Technological Exchanges Between India and Soviet Central Asia** (Medieval Period) —Proceedings of the Seminar held from Nov. 7-12 1981 at Bombay: Ed. B V Subbarayappa. 125.00
17. **History of Astronomy in India** —Ed. by S N Sen and K S Shukla 200.00
- *18. **Some Aspects of Prehistoric Technology in India** —H D Sankalia 10.00 2.50

*19. A Concise History of Sciences in India —Ed. by D M Bose, S N Sen & B V Subbaryappa	50.00	16.00
--	-------	-------

BULLETINS

(Proceedings of the Symposia)

No.		Rs.	\$
1.	The Rajputana Desert (1952) 302 pp.	13.12	4.50
2.	Scientific Utilisation of Coal in India (1953) 140 pp.	6.87	2.25
*3.	Soil Research in India (1954) 232 pp.	9.87	3.00
*4.	Indigenous Drugs and Insecticides (1955) 158 pp.	20.62	6.75
5.	Mineral Raw Materials & their Byproducts (1955) 100 pp.	3.75	1.25
6.	Scientific Principles and their Application in Tropical Building Design and Construction (1955) 392 pp.	36.25	12.00
7.	Organic Evolution (1955) 308 pp.	12.50	4.25
*8.	Trace Elements in the Nutrition of Plants & Animals (1955) 120 pp.	7.50	2.50
9.	High Altitude Research (1957) 298 pp.	25.03	8.50
*10.	Climate, Environment and Health (1959) 88 pp.	8.75	3.00
*11.	Geophysical Research including Geodesy (1958) 152 pp.	6.87	2.25

*Out of stock.

	Rs.	₹
12. Contact Catalysis (1959) 302 pp.	3.75	1.25
13. Radioisotopes (1959) 102 pp.	5.62	1.75
14. Crystal Physics (1959) 178 pp.	6.25	2.00
*15. Vegetable Oils and their Products (1960) 68 pp.	6.87	2.25
*16. Hydrographic Survey and River Physics in India (1960) 74 pp.	8.12	2.75
*17. Thyro-Gonad-Adrenal- Pituitary Relationships (1960) 134 pp.	10.62	3.50
*18. Biochemical Aspects of Cholesterol Metabolism and Atherosclerosis (1961) 94 pp.	6.87	2.25
19. Advancing Frontiers of Life Sciences (1962) 342 pp.	23.75	8.00
20. Food Needs and Resources (1962) 174 pp.	5.00	1.75
*21. History of Sciences in India (1963) 344 pp.	13.75	4.50
22. Geophysics in Relation to Geological Problems (1962) 134 pp.	6.87	2.25
23. Recent Advances in Glycoside Chemistry (1963) 114 pp.	5.00	1.75
24. Plant and Animal Viruses (1962) 248 pp.	19.37	6.50
25. Vitamin Metabolism (1964) 210 pp.	11.25	3.75
26. Fertility of Indian Soils (1964) 378 pp.	22.50	7.50

	Rs.	\$
27. Endocrinology of Reproduction (1964) 100 pp.	5.62	1.75
28. Natural Quinones (1965) 150 pp.	6.25	2.00
29. Electrochemistry (1965) 34 pp.	16.87	5.00
30. Spectroscopy at Radio and Microwave Frequencies (1965) 124 pp.	5.00	1.75
31. Recent Advances in Plant Polyphenolics (1965) 200 pp.	8.45	2.75
32. Tectonics (1966) 110 pp.	10.00	3.25
33. Magnetohydrodynamics and its Application to Astrophysics (1966) 118 pp.	5.75	2.00
34. Newer Trends in Taxonomy (1967) 410 pp.	26.65	9.00
35. Physiology of Fungi (1967) 128 pp.	5.84	2.00
36. Comparative Endocrinology (1968) 218 pp.	23.40	7.75
37. Chemistry of Terpenoids (1968) 222 pp.	9.26	3.00
38. Indian Ocean (1968) Part I 562 pp.	35.10	11.75
Part II 476 pp.	33.80	11.25
39. Precancer (1969) 166 pp.	20.40	6.75
*41. Role of River Valley Projects in National Planning (1969) 234 pp.	15.08	5.50
*41. Comparative Embryology of Angiosperms (1971) 386 pp.	18.00	6.00
42. Operations Research (1970) 370 pp.	26.00	8.75

	Rs.	\$
43. Ground and Lake Water Resources of India (1971) 190 pp.	9.10	3.00
44. Reclamation and Use of Wastelands in India (1972) 220 pp.	11.05	3.75
45. Deccan Trap Country (1972) 314 pp.	13.00	4.50
46. Epidemiology, Forecasting and Control of Plant Diseases (1973) 254 pp.	15.60	5.20
*47. Marine Intertidal Ecology (1974) 328 pp.	22.75	7.60
*48. Perspectives in Reproductive Physiology of the Female (1974) 186 pp.	15.00	5.00
*49. Photochemical and Photophysical Processes in Biological Systems (1974).	9.00	3.00
50. Clay Minerals in Indian Soils (1975) 228 pp.	19.50	6.50
*51. Legume Inoculants— Science and Technology (1976) 324 pp.	25.00	8.00
*52. Mycoplasmal Diseases (1973) 111 pp.	15.00	5.00
53. Gene Pools, Centres of Crop Plants and Recent Advances in Mutation Research (1976) 106 pp.	15.00	5.00
*54. Droughts in Asiatic Monsoon Area (1976) 276 pp.	35.00	12.00
55. Basic Sciences and Agriculture (1978) 253 pp.	30.00	10.00

*Out of Stock

TRANSACTIONS

No.		Rs.	\$
*1.1	Physiology, Bionomics and Evolution of Airbreathing Fishes of India—S L Hora. 16 pp.	1.00	0.50
*1.2	Synopsis of the Pre-Vindhyan Geology of Rajputana—A M Heron. 18 pp.	1.25	0.50
*1.3	The Role of Electrical charges in the Phagocytosis of Red Cells in Malaria—R N Chopra, S N Mukerjee and K V Krishnan. 12 pp.	0.75	0.25
*1.4	The Cataphoretic Speed of Inorganic Colloids—J N Mukherjee, S G Chadhury and B N Ghosh. 36 pp.	1.00	0.50
*1.5	On Synthetic Enzymes—The Carboxylase Type of Decomposition of Pyruvic Acid—H K Sen and Sohanlal Banerjee. 10 pp.	0.50	0.25
*1.6	Nappe Structure in the Archean Rocks of Nagpur district—W D West. 10 pp.	1.50	0.50
*1.7	A Study of some Microscopical Aspects of Indian Manganese Ores—J A Dunn. 22 pp.	3.00	1.00
*1.8	Studies in the Electron Theory of Solid Metals—N K Saha. 62 pp.	4.00	1.50
*1.9	Notes on some Indian Species of Lycopodium with remarks on the distribution of the Genus in India—N Chowdhury. 40 pp.	13.00	4.50

	Rs.	\$
*1.10 The Characteristic Properties of Colloidal Solutions of Acidic Substances which distinguish them from Acids in True Solutions—J N Mukerjee, R P Mitra and S Mukherjee. 66 pp.	5.00	1.75
*1.11 Biochemistry of Sonti Fermentation—K Rami Redi and V Subrahmanyam. 38 pp.	4.00	1.50
*1.12 On the Theory of Liquids—T L Wheeler. 32 pp.	3.00	1.00
*2.1 Amplification of the Theory of Multiphased Gastrulation among Insects, and its Applicability to some other Arthropods—M L Roonwal. 38 pp.	4.00	1.50
*2.2 Changes brought in Colloids by Dialysis—B N Desai and P M Barve. 30 pp.	3.00	1.00
*2.3 The Nature of the Colouring Substances in Coloured Polyporaceae—S R Bose. 18 pp.	4.00	1.50
*2.4 The Decapod Sperm—Vishwa Nath. 34 pp.	8.00	2.75
*2.5 Counting System for the Detection of Charged and Uncharged Particles—N N Das Gupta. 28 pp.	3.00	1.00
*2.6 On the Finger Nails and Nail Phalanges of Twins—S S Sarkar. 44 pp.	6.00	2.00
*2.7 On Nuclear Energetics and β -Activity—M N Saha and A K Saha. 28 pp.	6.00	2.00

	Rs.	\$
2.8 On Mineral Research for Developing Minerals Industries in India. 137 pp.	24.00	8.00
*3.1 On Nuclear Energetics and β —Activity—A K Saha, S Ghosal and S Das. 66 pp.	11.00	3.75
*3.2 Systematics, Ecology of Mammals studies in connection with Tsutsugamushi Disease (Scrub Typhus) in the Assam-Burma War Theature during 1945—M L Roonwal. 56 pp.	10.00	3.50
*3.3 Dykes in Western India. A Discussion of their Relationship with the Deccan Traps—J B Auden. 36 pp.	5.00	1.75
*3.4 A contribution to the Morphology and Anatomy of Cyclanthecease—K R Surange. 52 pp.	9.00	3.00
*3.5 Gaseous Reduction of Iron Ore—H Trivedi. 1956 pp. 46	3.00	1.00
*3.6 Solution of the Equations of Internal Ballistics when the rate of Burning is a Linear Function of the Pressure—J N Kapur. 32 pp.	2.00	0.75
*4.1 The Petrography and Petrogenesis of Forty-eight Flows of Deccan Trap Penetrated by Borings in Western India—W D West. 59 pp.	7.00	2.50

*Out of stock

SCIENTIFIC REPORT SERIES

	Rs.	\$
1. Turbulence (Pipe Flows)—R S Srivastava	30.00	10.00
2. The Statistical Model of Atom and its Applications—F C Auluck and Ashok Jain	15.00	5.00
3. Structures in Differentiable Manifold—R S Mishra	15.00	5.00
4. Interaction of Waves in a Plasma and Generation of Laser Parametric Instabilities— S S Jha and S Srivastava	20.00	70.00
5. Antennas in the Plasma Environment—Ram Chandra and J S Verma	15.00	5.00

POPULARISATION OF SCIENCE

1. Famous Plants (in English)—B M Johri and Sheela Srivastava	7.50	2.50
2. Use of Non-Human Primates in Biomedical Research—Ed. M R N Prasad and T C Anand Kumar	300.00	40.00
3. Science and its Impact on Society—Indian Experience	30.00	10.00

MONOGRAPHS

1. The Post-Glacial Desiccation of Central Asia: Evolution of the Arid Zone of Asia—D N Wadia	7.00	2.50
2. Chemistry of Bi- and Tripositive Silver—Priyadarajan Ray and Dabafate Sen	4.00	1.50
3. Black Soils of India—S P Raychadhuri, B B Roy, S P Gupta and M L Dewan	8.00	2.75

MATHEMATICAL TABLES SERIES

Tables of Partition of Gaussian Integers Computed —M S Cheema under the guidance of H Gupta	15.00	5.00
---	-------	------

PROGRESS OF SCIENCES IN INDIA SERIES

*MATHEMATICS (including Geodesy and Statistics) 1939-1951 —N R Sen	4.37	1.50
*PHYSICS (including Meteorology, Geophysics and Solar Physics) 1936-1950 Ed. —K Banerjee	3.12	1.00
*CHEMISTRY (including Physical, Inorganic, Analytical and Organic Chemistry) 1939-1950 Ed. —P Ray	3.75	1.25
*PHYSIOLOGY (Sub-Sections: Physiology and Biochemistry, Pharmacology and Veterinary Science) 1938-1950 Ed. —J C Ray		
Part I	8.12	2.75
Part II	7.50	2.50
*BOTANY (including Algology, Mycology and Plant Pathology, Bryology, Pteridology, Gymnosperms, Angiosperms and Applied Botany) 1932-1950 Ed. —G P Majumdar	10.62	3.50
*ZOOLOGY (including General Zoology, Entomology, Fish and Fisheries, Helminthology and Parasitology) 1938-1950 Ed. —H Srinivasa Rao	7.50	2.53

*GEOLOGY (including Stratagraphy, Mineralogy and Palaeontology, and Palaeobotany) 1938-1953 Ed. — M S Krishnan	Rs.	\$
	5.73	2.00

OTHER PUBLICATIONS

	Rs.	\$
*1. Advances in Lunar Research Luna/24 Samples	30.00	10.00
2. Harmonal Steroids in Fish	40.00	14.00
3. 5th Annual Symposium on Radio and Space Science	45.00	15.00
4. Summer School on Fishery Biology	40.00	14.00
5. Vertebrate Neurosecretion	25.00	8.50
6. Observations of Total Solar Eclipse of 16 Feb. 1980 (Preliminary results)	45.00	15.00
7. XI National Conference on Crystallography-invited talks	42.00	14.00
8. Insect Vector Biology	40.00	13.00
9. Proceedings of National Symposium on Space Sciences	60.00	20.00
10. Proceedings of Indo-Soviet Symposium on Chemistry of Natural Products	60.00	20.00
11. Proceedings of National Symposium on Plasma Physics	108.00	36.00
12. Total Solar Eclipse of 16 Feb. 1980 (Results of Observations) (Physical Sciences)	225.00	75.00

*Out of stock

	Rs.	\$
13. Proceedings of Symposium on Rain Water and Dry Land Agriculture	50.00	16.00
14. Proceedings of Winter School on Integrated Agricultural Development in Command Areas of Irrigation Projects	60.00	20.00
15. Proceedings of 1st Indo-Soviet Joint Symposium on Recent Trends in Electrochemical Science and Technology	75.00	15.00
16. Anatomy, Histology and Biochemistry of Mammalian Testis and Epididymis—L S Ramaswami.	40.00	13.00
17. Total Solar Eclipse of 16 Feb. 1980 (Results of observations) (Biological Sciences)	75.00	25.00
18. Pesticide Residue in food and Biological Tissues—C R Krishnamurty. 76 pp.	30.00	10.00
19. International Conference on the Application of the Mössbauer effect—Proceeding (Dec. 1981)	200.00	50.00
20. Thrust Areas in Astronomy and Astrophysics—J C Bhattacharyya and V R Venugopal	8.00	2.50
21. Biological Monitoring of the State of the Environment (Proceedings of the Seminar)	100.00	34.00
22. Physics and Chemistry of Surfaces (Proceedings of the Seminar, New Delhi 28-30 Sept. 1984)	200.00	68.00
23. Review of Floods in India during the past 75 years—C. Ramaswamy	65.00	23.00

HOW TO ORDER

1. All orders should be accompanied by Postal order/Demand Draft in favour of the Indian National Science Academy, New Delhi, in full payment of the value of the publications ordered. Money orders are also accepted, provided details of books etc., and the name and address of the party ordering them are stated clearly in the Money Order coupon. Cheques are accepted only in case of order of the value of Rs. 25.00 and above. Outstation cheques should carry Rs. 5.00 extra towards bank commission.

2. Orders would normally be executed within a fortnight of their receipt and subject to availability of stock. Part supply will be made if all book are not available at the time of execution of order.

3. All prices, unless otherwise stated are subject to change.

4. The Academy shall not be liable for any loss or compensation in case of delay or failure in delivery due to circumstances beyond its control.

- | | |
|--|-----|
| 5. A) Discount on Periodicals to Booksellers | 12% |
| B) Discount on Publications to Booksellers | 25% |
| C) Discount on Publications to individuals/Research Scholars | 10% |

6. All orders should be addressed to the Assistant Executive Secretary (Publications), Indian National Science Academy, Bhadur Shah Zafar Marg, New Delhi-110 002.

(contd. from first inner cover)

India in January 1968. It provides support for organizing various national and international conferences and symposia sponsored by various scientific societies and International Council of Scientific Unions and its affiliated Unions. The Academy plays the pivotal role in coordinating Inter-Academy Exchange Programme by way of facilitating contacts between individuals/scientific institutions in India with those working in similar fields in collaborative countries such as UK, USSR, Japan, France, Poland, Hungary, Philippines and others.

The Academy, through its Fellowship, attempts to inculcate and foster scientific temper in different walks of life in the country. The INSA tends to uphold the basic level of science-search for truth and alleviation of human suffering.

