

Jayant V. Narlikar

LIST OF PUBLICATIONS – II

Semitechnical/Popular Publications

E: *Publications in English*

H: *Publications in Hindi*

M: *Publications in Marathi*

S: *Publications in Sanskrit*

Those marked with an asterisk are texts of public lectures.

1961

- 1E Galaxies
A review of the above book by H. Shapley (Harvard),
The Observatory, **81**, 253

1964

- 2E Gravitational collapse
Discovery, March issue, 16
- 3E A new look at gravitation
New Scientist, June 18, 730
Reprinted in *School Science*, December issue, 321

1965

- 4E An unsteady universe?
New Scientist, June 17, 771
- 5E Quasars, QSGs and cosmology.
Science Reporter, **2**, 531
- 6E The measure of the universe
A review of the above book by J.D. North (Oxford),
Cambridge Review, **88**, 488

1968

- *7E The Universe and the laws of physics
Lokmanya Tilak Lectures, University of Poona

- 8E The logic of special relativity
A review of the above book by S.J. Prokhovnik (Cambridge)
British Journal for the Philosophy of Science, **19**, 267
- 1969**
- 9E The arrow of time
Science Today, June issue, 11
- 1970**
- 10E The interaction of laboratory science and astronomy
The American Scientist, **58**, 290
- 11E Exploring the Universe
Souvenir, *Interschool Science Exhibition*, Bombay, 11
- *12E Universe and the arrow of time
Friday Evening Discourse at the Royal Institution, London
Proceedings of the Royal Institution, **44**, 64
- 13E Relativity theory : Its origins and impact on modern thought
A review of the book by L. Pierce Williams (Wiley)
British Journal for the Philosophy of Sciences, **XX**, 216
- 1971**
- 13aE Scale invariance and gravity
A review of a paper by Y. Fujii
Nature, **234**, 1
- 1973**
- 14E Was the universe born with a big bang?
Science Today, January issue, 9
- 15E Steady state defended.
Cosmology Now, Ed. L. John (B.B.C.), 69
- 16E Particle creation in a big bang universe
Nature, **246**, 378
- *17M Anu ani vishva
(Atom and the universe)
Presidential address to the Marathi Vidnyan Parishad at Jalna, November 17

1974

- *18E Copernicus and modern astronomy
Lecture given at the Birla Industrial and Technological Museum on the quincentenary of Nicolaus Copernicus
Indian Journal of History of Science, **9**, 151
- 19E Copernicus and after
A review of the book 'The Planets Today' (The Royal Society, London),
Science Today, September issue, 49
- 20E Action at a distance electromagnetism (ADE)
Science Today, November issue, 22
- 21M Vidnyan ani ganit
(Science and Mathematics)
Rudravani, Diwali issue, 52

1975

- 22E Second thoughts on general relativity?
Science Today, December issue, 22
- *23M Ganit ani vidnyan
(Mathematics and Science)
Dr. G.M. Phadke Memorial Lectures (Mumbai Marathi Grantha Sangrahalaya)
- 24E QSO redshifts and the steady state cosmology
(With P.K. Das), *Nature, News and Views*, **258**, 660
- 25E Fifth seminar on general relativity and gravitation
Bulletin of the Astronomical Society of India, **3**, 18

1976

- 26E How are distances of astronomical objects measured?
Science Today, January issue, 61
- 27E Inspiring moments in the lives of great astronomers
Vivekanand Kendra Patrika, 14
- 28E A look at cosmology as a branch of science
Physics News, **7**, 1
- 29E Cosmology : in ancient and modern times
The Hindustan Times, October 31

- *30E The role of scientific outlook in the development of science and society
Jawaharlal Nehru Memorial Lecture (Jawaharlal Nehru Memorial Fund)
- 31E How does the astronomer measure masses?
Science Today, December issue, 71
- 32E Cosmology, then and now
Overseas Hindustan Times, November 11
- 33E Scientific attitude and development in science and technology
School Science, December issue, 3
- 34E Planetaria for science study
Free Press Journal, December 12
- 35E Winter school on high energy astrophysics
(With S.M. Chitre),
Bulletin of the Astronomical Society of India, **4**, 33
- 36E Tensors, relativity and cosmology
Review of the above book by E.A. Lord (Tata McGraw Hill)
Physics News, **7**, 141
- 37E Report on the IAU Symposium on radio astronomy and cosmology
Bulletin of the Astronomical Society of India, **4**, 92
- 38M Antaral ahe tari kase?
(What is the space like?)
Kirloskar, March issue, 26
- 39M Gurutviya avapat
(Gravitational collapse)
Marathi Vishvakosh, **5**, 150
- 40M Ganitatil gamati-jamati, I
(Fun with mathematics, I)
Kirloskar, August issue, 20
- 41M Ganitatil gamati-jamati, II
(Fun with mathematics, II)
Kirloskar, September issue, 23
- 42M Ganitatil gamati-jamati, III
(Fun with mathematics, III)
Kirloskar, October issue, 41

43M Ganitatil gamati-jamati, IV
(Fun with mathematics, IV)
Kirloskar, December issue, 47

1977

44E What is the universe like?
School Science, March issue, 3

*45E Did the universe have an origin?
The Third Vikram Sarabhai Lecture, Institute of Engineers, Bombay
Nuclear India, **16**, 1, 2

*46E The magic lamp of the twentieth century
Visvesvaraya Memorial Lecture, Institute of Engineers, Pune,
Engineers' Day Souvenir, 1

47E A cosmic anomaly?
Science Today, December issue, 24

48M Janata vidnyanache swagat kenvha karil?
(When will the masses welcome science?)
Gramodyog, January : Republic Day issue, 3

49M Vaidnyanik drishtikon mhanaje kay?
(What does scientific outlook mean?)
Kirloskar, January, 26

50M Yuddha ani samrakshan : shambhar varshanantar
(War and defence : a hundred years hence.)
Dharmabhaskar, Special issue on Defence, July-August, 21

51M Ganitatil gamati-jamati, V
(Fun with mathematics, V)
Kirloskar, February issue, 41

52M Ganitatil gamati-jamati, VI
(Fun with mathematics, VI)
Kirloskar, March issue, 61

53M Ganitatil gamati-jamati, VII
(Fun with mathematics, VII)
Kirloskar, April issue, 41

54M Ganitatil gamati-jamati, VIII
(Fun with mathematics, VIII)
Kirloskar, June issue, 57

- 55M Ganitatil gamati-jamati, IX
(Fun with mathematics, IX)
Kirloskar, July issue, 59
- 56M Ganitatil gamati-jamati, X
(Fun with mathematics, X)
Kirloskar, August issue, 33
- 57M Ganitatil gamati-jamati, XI
(Fun with mathematics, XI)
Kirloskar, September issue, 49
- 58M Ganitatil gamati-jamati, XII
(Fun with mathematics, XII)
Kirloskar, October issue, 49
- 59M Ganitatil gamati-jamati, XIII
(Fun with mathematics, XIII)
Kirloskar, December issue, 49

1978

- 60E Comets and the origin of life
Science Today, January issue, 19
- 61E Science and the future of man
Diamond Jubilee Number, Indian Medical Association (Banaras), 17
- 62E New evidence for a black hole?
Science Today, June issue, 21
- 63E White holes : to be or not to be?
Science Today, July issue, 22
- 64E Cosmic tachyons : an astrophysical approach
The American Scientist, **86**, 587
- 65E Science and human survival
Society and Science, **1**, 11
- 66E Nobel prizes in physics, 1978
Science Today, December issue, 43
- 67E Nobel recognition of cosmology
Bulletin of the Astronomical Society of India, **6**, 111
- 68H Vah umra hi kuchh aur thi, vah rang hi kuchh aur tha
(That was the age, that was the colour)
Compiled by Alok Mehrotra, *Dharmayug*, March 19

- 69H Nakshatrashalaon ki awashyakata kyon hoti hai?
(Why are planetaria needed?)
Jyoti Janadhara, March issue, 28
- 70H Kya brahmand ka koi udbhava tha?
(Did the universe have an origin?)
Paramanu, July-September issue
- 71M Ahe jadoochoa diva ahe
(Yes, there is a magic lamp)
Kirloskar, January issue, 33
- 72M Wadhanare tantra vidnyan
(The expanding science and technology)
Kirloskar, May issue : 700th special number, 82
- 73M Vidvan sarvatra "pujya" te?
(Are intellectuals being ignored everywhere?)
Maharashtra Times, June 11
- 74M Visavya shatakatil jadoochoa diva
(The magic lamp of 20th Century)
Navabharat, August issue, 9
- 75M Gita-parityaga
(The abandonment of Gita : in sanskrit)
Dharmabhaskar, August issue, 21
- 76M Ganitatil gamati-jamati, XIV
(Fun with mathematics, XIV)
Kirloskar, January issue, 49
- 77M Ganitatil gamati-jamati, XV
(Fun with mathematics, XV)
Kirloskar, February issue, 49
- 78M Ganitatil gamati-jamati, XVI
(Fun with mathematics, XVI)
Kirloskar, March issue, 33
- 79M Ganitatil gamati-jamati, XVII
(Fun with mathematics, XVII)
Kirloskar, April issue, 49
- 80M Ganitatil gamati-jamati, XVIII
(Fun with mathematics, XVIII)
Kirloskar, June issue, 17
- 81M Ganitatil gamati-jamati, XIX
(Fun with mathematics, XIX)
Kirloskar, July issue, 45

82M Ganitatil gamati-jamati, XX
(Fun with mathematics, XX)
Kirloskar, August issue, 27

1979

83E Einstein and cosmology
Physics News, **10**, 1

84E Binary pulsar and general relativity
Bulletin of the Astronomical Society of India, **7**, 20

85E Astrology : a pseudo science
Indian Atheist, December issue, 29

86E The substantial space and void nature of elementary
material particles
Review of the above book by P. Tewari (Satyasaibaba Publishers),
Current Science, **48**, 516

87E Mother tongue as machine of instruction for science
Lokarajya, October 1, 18

*88M Vidnyan ani manavacha jeevan sangharsh
(Science and human survival)
Banhatti Memorial Lectures of Padmavati Pratishthan
(Deccan Education Society, Pune)

89M Udatya tabakadya
(Flying saucers)
Lecture delivered at the 1978 Annual Meeting at Tarapur
of the Marathi Vidnyan Parishad, *Navaneet*, January issue, 93.

90M Majhya paribhashepramane he ganit navech
(This is not mathematics as per my definition)
Maharashtra Times, January 28

91M Dr. Jayant Narlikar yanchi bhumika
(The view point of Dr. Jayant Narlikar)
Maharashtra Times, March 11

92M Udatya tabakadya : tathakathit vidnyan
(Flying saucers : pseudo science)
Kesari, May 27

*93M Marathi bhashetun vidnyan
(Science through Marathi Language)
Lecture delivered at Rajbhasha Seminar arranged by
Government of Maharashtra, *Lokarajya*, October issue, 23

- *94M Vidnyan, vainyanik ani samaj : ek trikon
(Science, scientists and society : a triangle)
Lecture delivered at the Annual Meeting at Vadodara of the
Marathi Vidnyan Parishad
Vidnyanyug, December issue, 13

1980

- 95E If there were no gravity
Science Today, January issue, 45
- 96E The expanding horizons of cosmology
Indian Horizons, **XXIX**, 2, 5
- 97E Anomalous redshifts of quasars
Science Today, May issue, 33
- 98M Subuddhatechi univ bharun kadhil
(Will make up for the scarcity of reasoning)
Maharashtra Times, January 6
- 99H Jai Varanasi Express.
(Three cheers for Varanasi Express)
Dharmayug, 23 March

1981

- 100E Astronomer's cricket puzzle
Science Today, January issue, 52
- 101E Current trends in cosmology
Indian News, Washington D.C., March 2, 5
- 102E What do quasar alignments mean?
Science Today, June issue, 25
- 103E Was there a big bang?
New Scientist, July 2, 19
- 104E Science and the uncanny
Society and Science, **4**, 52
- 105E Voids are also important.
Science Today, November issue, 33
- 106E Science fiction films : how much science? how much fiction?
Science Today, December issue, 5

- 107E Is the universe rotating?
Science Today, December issue, 33
- 108E Energy machines in outer space
PTI Science Service, December
- 109E IAU Regional meeting at Bandung
Physics News, **12**, 113
- 110M Superfast trainche superganit
(The supermaths of the superfast train)
Maharashtra Times, May 31
- 111M Prithvipalikade jeevashrishti ahe ka?
(Is there extraterrestrial life?)
Kesari, August 28
- 112M Khagolshastratil suras ani chatmatkarik goshti
(The strange and interesting things in astronomy)
Tarun Bharat, Diwali issue, 101
- 113M Vaidnyanik jagriti havi
(There is need for scientific awakening)
Kesari, Diwali issue, 70

1982

- 114E Black hole blues
New Scientist, January 14, 103
- 115E Ancient Indian science : mathematics
Akashwani, May 16, 2
- 116E Science is learned best in the mother tongue
Sunday Observer, October 3
- 117E Wanted: new ideas to explain extragalactic energy sources
Sunday Observer, November 7
- *118E Modern cosmology
Department of Physics, Decennial Lectures, Bombay University, 19
- *119E Learning to live with science and technology
Eighteenth Founder Memorial Lecture, Shriram Institute for Industrial Research, New Delhi, April 26
- *120E Inertia and cosmology
G.C. Sen Memorial Lecture, Jadavpur University, July 22

- 121E The cosmology of infinity
Review of the above book by F. Anson Firth (Morris Publishing Co. Canada),
Bulletin of the Astronomical Society of India, **10**, 258
- 122E Progress in cosmology
Review of the above book edited by A.W. Wolfendale (D. Reidel),
Bulletin of the Astronomical Society of India, **11**, 356
- 123E Physics and philosophy: do the twain meet?
Review of the book *Cosmology, Physics and Philosophy* by B. Gal-Or (Springer-Verlag),
Journal of Scientific and Industrial Research, **41**, 680
- 124E The redshift controversy in quasar astronomy
Physics News, **13**, 3, 1
- 125H Brahmandiya utpatti: Kuchh vaigyanik vicharadharayen
(The origin of the universe: some scientific ideas)
Vaigyanik, July-December issue
- 126M Vidnyan ani adbhut
(Science and the uncanny)
Tatparya, April issue, 25
- 127M Eka shastriya pustakacha khelakhandoba
(The spoiling of a scientific text)
Maharashtra Times, July 7
- 128M Bahya akashatil urjayantre
(Energy machines in outer space)
Ravivar Sakal, August 1
- 129M Kahi vaidnyanik kisse
(Some scientific anecdotes)
Rutugandh, Diwali issue, 159
- 130M Jagatalya prasiddh durbini
(Famous telescopes in the world)
Reshma, Diwali issue, 23
- 131M Apangatvala na-jumannara shastradnya - Stephen Hawking
(Stephen Hawking - a scientist who surmounted disabilities)
Titiksha, **6**, 10
- *132M Ase he ganit, ase he ganiti
(This is how mathematics is : this is how mathematicians are)
Bhaskaracharya memorial lecture, Souvenir of Maharashtra Ganit Adhyapak Mahamandal's Annual Conference in Amaravati, December 26

- 133M Vidnyan-vedha, I: Vaidnyanik sankalp mhanje manucha masa
(Science perspectives, I: Scientific projects grow like Manu's fish)
Kirloskar, January issue, 42
- 134M Vidnyan-vedha, II: Halleyshi hastandolan
(Science perspectives, II: Shaking hands with Halley)
Kirloskar, February issue, 43
- 135M Vidnyan-vedha, III: Phalajyotishache thotand
(Science perspectives, III: The fraud that is astrology)
Kirloskar, March issue, 37
- 136M Vidnyan-vedha, IV: Dishabhul karanare `vaidnyanik samshodhan'
(Science perspectives, IV: The misleading `scientific research')
Kirloskar, April issue, 33
- 137M Vidnyan-vedha, V: Genetic engineering
(Science perspectives, V: Genetic engineering)
Kirloskar, June issue, 49
- 138M Vidnyan-vedha, VI: Darwinchya siddhantala virodh
(Science perspectives, VI: An opposition to Darwin's theory)
Kirloskar, July issue, 34
- 139M Vidnyan-vedha, VII: Field-samiticha ahowal
(Science perspectives, VII: The Field Committee's report)
Kirloskar, August issue, 40
- 140M Vidnyan-vedha, VIII: Anuchya antarangasathi vishwakade dhav
(Science perspectives, VIII: Resorting to the cosmos to probe the heart of the atom.)
Kirloskar, September issue, 53
- 141M Vidnyan-vedha, IX: Varyachi shakti
(Science perspectives, IX: Wind Power)
Kirloskar, October issue, 56
- 142M Vidnyan-vedha, X: Vidnyan ani gupt-police
(Science perspectives, X: Science and detectives)
Kirloskar, December issue, 37

1983

- 143E White holes: cosmic energy machines
New Scientist, February 24, 516
- 144E A New Research Institute for Sri Lanka
Science Today, March issue, 8
- 145E Mysterious energy machines in outer space
Science Today, May issue, 19

- 146E Lokamanya Tilak and the astronomical dating of the Vedas
Tilak Society, Allahabad, Special Number, 3
- 147E Are quasars really far away?
New Scientist, September 29, 920
- 148E How old are the Vedas?
Science Age, October/November issue, 10
- 149E The exploding universe
The Illustrated Weekly of India, November 6, 6
- 150E Nobel Prize 1983
Physics News, **14**, 77
- 151E Nobel Laureate Subramanyan Chandrasekhar
Nizamiah Observatory Platinum Jubilee Souvenir, 46
- 152E Did he get the right number?
The Illustrated Weekly of India, 32
- 153E Astronomy through the ages, I
(Comic strip with Sabir)
Science Age, August issue, 48
- 154E Astronomy through the ages, II
(Comic Strip with Sabir)
Science Age, September issue, 60
- 155E Astronomy through the ages, III
(Comic strip with Sabir)
Science Age, October/November issue, 70
- 156E Astronomy through the ages, IV
(Comic strip with Sabir)
Science Age, December issue, 58
- 157H Brahmand ki utpatti ke kuchh kshan bad
(A few moments after the creation of the universe)
Paramanu, **8**, 4, 6
- 158H Bharatiya samskriti mein vigyan ki parampara
Bharatiya Samskriti, **2**, 422, Edited by Prabhakar Machwe
(Bharatiya Samskriti Parishad, Calcutta)
- 159H Khagol-bhautiki, ek najaria
(A glance at astrophysics)

- 160M Samharak shastrastrancha manavjatilach dhoka
(Danger to mankind from destructive weapons)
Translation of a lecture by Arthur C. Clark
Kirloskar, May issue, 38
- 161M Nobel paritoshik vijete pradhyapak Chandrasekhar
(Nobel prize winner Professor Chandrasekhar)
Maharashtra Times, November 16
- 162M Vdinyanyug ani vidnyansahitya
Science-Age & Scientific Literature
Srishtidnyan, November issue, 323
- 163M Vaidnyanik parampara
(Scientific tradition)
Dharmabhaskar, Diwali issue, 19
- 164M Ekikaranakade vatchal
(Progress towards unification)
Souvenir, Udgir Meeting of Marathi Vidnyan Parishad, 26
- 165M Vidnyan-Vedha, XI: Einsteinla Nobel-paritoshik kase milale?
(Science perspectives, XI: How did Einstein get the Nobel Prize?)
Kirloskar, January Issue, 43
- 166M Vidnyan-Vedha, XII: Shrilanketil abhinav adhyayan samstha
(Science perspectives, XII: A new institute for fundamental studies in Sri Lanka)
Kirloskar, February Issue, 33
- 167M Vidnyan-Vedha, XIII: Vishvat apan ekate ahot?
(Science perspectives, XIII: Are we alone in the universe?)
Kirloskar, April issue, 45
- 168M Vidnyan-Vedha, XIV: Bahya jeevasrishtichi prithvivar
dhaladhaval?
(Science perspectives, XIV: Are extraterrestrial living
beings interfering with the Earth?)
Kirloskar, May issue, 57
- 169M Vidnyan-Vedha, XV: Vaidnyanik samshodhan ani shasakiya
niyantran
(Science perspectives, XV: Scientific research and government control)
Kirloskar, June issue, 38
- 170M Vidnyan-Vedha, XVI: Suryache akunchan hot ahe ka?
(Science perspectives, XVI: Is the sun shrinking?)
Kirloskar, July issue, 42

- 171M Vidnyan-Vedha, XVII: Vadnyanik samshodhanasathi
laganari ganakayantre
(Science perspectives, XVII: Computer needed for scientific research)
Kirloskar, August issue, 48
- 172M Vidnyan-Vedha, XVIII: Antaral samshodhan ha pandhara
hatti ahe kay?
(Science perspectives, XVIII: Is space research a white elephant?)
Kirloskar, September issue, 92
- 173M Vidnyan-Vedha, XIX: Antaratun vedh
(Science perspectives, XIX: Space Observations)
Kirloskar, October issue, 40
- 174M Vidnyan-Vedha, XX: Vdinyanachi vatchal
(Science perspectives, XX: The march of science)
Kirloskar, December issue, 53

1984

- 175E Why was Fred Hoyle passed over in this year's Nobel Awards?
Science Age, January issue, 8
- 176E Perils from outer space
The Illustrated Weekly of India, May 13,36
- 177E On popularizing science
Souvenir, Department of Mathematics, IIT, Bombay, 21
- 178E Two cheers for general relativity
Science Today, May issue, 20
- 179E Was there really a big bang?
UNESCO Courier, September issue, 13
- *180E Recreational aspects in the study of Mathematics
The P.L. Bhatnagar Lecture of the Association of Mathematics Teachers of India
Souvenir of the Joint Conference of AMTI and MGAM at Pune,
December 7, 1
- 181E Astronomy through the ages, V
(Comic strip with Sabir)
Science Age, January issue, 58
- 182E Astronomy through the ages, VI
(Comic strip with Sabir)
Science Age, February issue, 52

- 183E Astronomy through the ages, VII
(Comic strip with Sabir)
Science Age, March issue, 52
- 184E Astronomy through the ages, VIII
(Comic strip with Sabir)
Science Age, April issue, 54
- 185E Astronomy through the ages, IX
(Comic strip with Sabir)
Science Age, May issue, 60
- 186E Astronomy through the ages, X
(Comic strip with Sabir)
Science Age, June issue, 62
- 187E Astronomy through the ages, XI
(Comic strip with Sabir)
Science Age, July issue, 52
- 188E Astronomy through the ages, XII
(Comic strip with Sabir)
Science Age, August issue, 64
- 189H Kya vastav mein bhari dhamaka hua bhi tha?
(Was there really a big bang?)
Unesco Doot, November issue, 13
- 190H Vishpotit brahmand, I
(The universe that exploded, I)
Vigyan, February issue, 1
- 191H Vishpotit brahmand, II
(The universe that exploded, II)
Vigyan, April issue, 1
- 192H Vishpotit brahmand, III
(The universe that exploded, III)
Vigyan, May issue, 1
- 193M Nobel che mankari : Dr. Subrahmanyam Chandrasekhar
(Nobel prize winner : Dr. Subrahmanyam Chandrasekhar)
Kirloskar, January issue, 26
- 194M Bahurangi pratibhecha vaidnyanik : Fred Hoyle
(Fred Hoyle : A scientist of multispplendoured talents)
Kirloskar, February issue, 44
- 195M Kharokhar vidnyan tatastha ahe ka?
(Is science really neutral?)
Marathi Vidnya Parishad Patrika, February issue, 239

- 196M Gurutvakarshanachya shodhache shreya konala?
(Who should be credited with the discovery of gravitation?)
Kirloskar, April issue, 5
- 197M Nirmitcha anand, manache samadhan he samshodhanatach
labhate
(The joy of creation and mental satisfaction are found
only in research)
Lokaprabha, September 9, 8
- 198M Vishvacha adishodh
(The research on the origin of the universe)
Kirloskar, Diwali issue, 121

1985

- 199E The aftermath of the big bang
The Hindustan Times, Sunday Magazine, January 13
- 200E Does the universe have a twist?
New Scientist, 17 January, 30
- *201E Life in the universe
Indian Merchants' Chamber, Economic Research & Training
Foundation's *Pranlal Devkaran Nanji Memorial Lecture*,
February 27
- 202E Are we alone in the universe?
The Hindustan Times, Sunday Magazine, April 14
- 203E Were our ancient ancestors scientifically advanced?
Science Age, April issue, 2
- 204E The explosion in astronomical research : can we cope with it?
(With A.K. Kembhavi),
Science Age, April issue, 4
- *205E The contributions of astronomy to our understanding of the physical world
Golden Jubilee Lecture at the Indian Institute of Science, Bangalore
Bulletin of Sciences, April-May 1985
- 206E La cosmologia quantistica e l'origine dell'universo
(Translated in Italian from the original English, titled
Quantum cosmology and the origin of the universe)
Sepere, August issue, 31
- 207E Was there really a big bang ?
Sunday Statesman, September 1

- 208E Once upon a universe
Review of the book *The Left Hand of Creation* by J.D. Barrow and J. Silk (Basic Books/Heinemann),
Science Today, January issue, 32
- *209E The scientific tradition in India from ancient to modern times
Foundation Day Oration at Ramakrishna Mission's Institute of Culture,
Bulletin of the Ramakrishna Mission Institute of Culture, **XXXVI**, 4, 75.
- 210E The mathematical theory of black holes
Review of the above book by S. Chandrasekhar (Clarendon Press),
Foundations of Physics, **15**, 911
- 211E Third Rome meeting of astrophysics on 'Cosmic background radiation and fundamental physics', 1984 December 11-15
Bulletin of the Astronomical Society of India, **13**, 94
- *212H Vigyan, brahmand aur manav
(Science, universe and man)
Ravishankar Shukla Memorial Lectures (Rajpal and Sons, Delhi)
- 213H Avismaraniya
(Unforgettable)
Dharmayug, June 23, 9
- 214H Brahmand mein bhutadravyon ke vichitra khel
(Strange interactions of particles in the universe)
Saptahik Hindustan, December 8, 17
- 215M Puranatil vidnyan-vikasachi vanagi
(Proofs of science development in the ancient scriptures)
Maharashtra Times, March 10
- 216M Vaidnyanik Shodh antardnyanane lagat nahit
(Scientific discoveries are not made through inner knowledge)
Maharashtra Times, April 28
- 217M Vidnyankathetil marathi bhasha
(Marathi language in science fiction stories)
Yugavani, May-June issue, 5
- 218M Shaikshani gulamgiri kadhi sampanar ?
(When will the slavery in education end ?)
(With M.J. Narlikar)
Lokaprabha, August 18, 10
- 219M Shikshakansathi hitaguj
(Intimate dialogue with teachers)
Jeevan Shikshan, September issue, 4

- 219aM Khagolshastratun milnara vaidnyanik drishtikon
(Scientific outlook through astronomy)
Souvenir of Akashwani Science Fair 1985, Mulji Jetha School, Jalgaon
- 220M Archeopteryx: asali ki nakali ?
(Archeopteryx: real or forgery ?)
Ravivar Sakal, Diwali issue
- 221M Dev ani vaidnyanik
(God and the scientist)
Tonic, Diwali issue
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- 669H Naummidi mein vidnyan ki khoj : Uchit samikaran
(The right equations : Desperately seeking science)
Harkara, August-October, 2
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Shaikshanik Samachar Patrika, 9
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Samaz Zaroka, 35
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(In which Koda's pride is lost)
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DNA, September 28
- 893E Meghnad Saha and his equation
(Co-written with T. Padmanabhan)
DNA, October 5
- 894E Subrahmanyan Chandrasekhar & white dwarfs
(Co-written with T. Padmanabhan)
DNA, October 12
- 895E The first surface image of planet Venus
(Co-written with T. Padmanabhan)
DNA, October 19
- 896E Searches for microlife in the Earth's atmosphere
Via Lactea, October
- 897E The H-R diagram and the life of a star
(Co-written with T. Padmanabhan)
DNA, October 25
- 898E Eddington and the bending of light
(Co-written with T. Padmanabhan)
DNA, November 2
- 899E C.V. Raman and the Raman effect
(Co-written with T. Padmanabhan)
DNA, November 9
- 900E The catastrophic hole
(translated by Vijay Rale)
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- 901E Making the universe move
(Co-written with T. Padmanabhan)
DNA, November 16
- 902E The galactic neighbours
(Co-written with T. Padmanabhan)
DNA, November 23
- 903E Gamma-ray bursts
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DNA, November 30
- 904E Special areas scientific research: advancing the cause in India
The Hindu, December 3
- 905E The cosmic web
(Co-written with T. Padmanabhan)
DNA, December 14
- 906E A shower of light in the skies
(Co-written with T. Padmanabhan)
DNA, December 14
- 907E Jantar Mantar and its yantras
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DNA, December 21
- 908E Why study astronomy?
(Co-written with T. Padmanabhan)
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- 909E Tools for science education
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- 910H Vaidnyanik manovruti
(The scientific temper)
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- 911H Newton ka bagicha aur seb ka pedh
(The apple tree in Newton's garden)
Chakmak, February
- 912H Khagol vidyan ka adhyayan kisliye?
(Why study astronomy?)
Dream 2047, **11**, 8, 7
- 913H Phalit jyotish ki prayogik jaanch
(A statistical test of astrology)
Srote, June

- 914M Makar Sankranti
(Makar Sankranti)
Loksatta, January 1
- 915M Khagol varsha
(International year of astronomy)
Loksatta, January 2
- 916M Prithvi phirte ka surya?
(Which moves, the Sun or the Earth?)
Loksatta, January 3
- 917M Chandravarun akashdarshan
(The sky seen from the Moon)
Friend, No.1, 8
- 918M Tari mi alpapathit
(Still I am poorly read)
Granthanchya Sahavasat, 61
- 919M Nile akash ... saptarangi indradhanushya ani kalya akashat soneri surya ... kashi ghadate hi jadu?
(Why is the sky blue?)
Friend, No.2, 4
- 920M Khagol vidnyan ka shikave?
(Why study astronomy?)
Chhatra Prabodhan, May
- 921M Adbhut grahamala
(Wonderful world of planets)
Friend, No.3, 4
- 922M Mazi kalpak Aai
(My imaginative mother)
Panchavati Patrika, May
- 923M Galileo ne ghadavun aanaleli kranti
(The revolution brought about by Galileo)
Souvenir of the Agarkar High School & Junior College, 17
- 924M Olakh grahamalechi
(Getting acquainted with our planetary system)
Friend, No.4, 4
- 925M Vidnyan sanshodhanatil uttejana
(The experiment of scientific research)
Vidnyanyatri, 83
- 926M Udatya tabakadyanche rahasya
(The mystery of flying saucers)
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- 927M Ujavya sondecha ganapati
(Ujavya sondecha ganapati)
Vedhak vidnyankatha, 88
- 928M Putravati bhava
(Putravati bhava)
Vedhak vidnyankatha, 106
- 929M Chidreshavanartha
(The catastrophic hole)
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- 930M Khadkat rutalele mangalavaril jeevashma!
(Fossilised life in martial meteorities!)
Learn More, December 15, 6
- 931S Kalpanasharadiyam
(About Kalpana and Sharad)
Gunjaravha, 11

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- 932E LHC : The large hype creator
The Asian Age, April 28
- 933E P.C. Vaidya (1918 – 2010)
Current Science, **98**, 10, 1389
- 934E Are we alone in this universe?
The Asian Age, May 26
- 935E Streets echo the culture of a city
The Asian Age, June 23
- 936E The curious child
The Asian Age, July 28
- 937E Use time as a tool, not as a crutch
The Asian Age, August 25
- 938E Big bang and other prejudices
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- 939E Geoffrey Ronald Burbidge
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- 940E The sum of ego & challenges
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- 941E Fred Hoyle : A scientist of multi-faceted talents
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- 942E We still lack the urge
The Asian Age, November 24
- 943E Tilak and the star of the Vedas
The Asian Age, December 22
- 944H Khagol shastra kyon seekhe?
(Why study astronomy?)
Srot, June
- 945H Vidnyan, main aur vidnyan ka romanch
(Science, I and excitement of it all)
Shaishanik Sandarbha, May-June, 5
- 946H P.C. Vaidya
(P.C. Vaidya)
Srot, September
- 947H Vidnyan, samaj aur patrakarita
(Science, Society and Journalism)
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- 948H Vidnyan, samaj aur patrakarita
(Science, Society and Journalism)
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- 949M Nobelche mankari Subramanyan Chandrasekhar
(Nobel Laureate Subramanyan Chandrasekhar)
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- 950M Vidnyan ani me : Me vaidnyanik kasa zalo?
(Science and me : How I became a scientist?)
Jeevan Shikshan, February issue, 12
- 95M Olakh shastradnyanchi
(Getting to know the scientists)
Learn More, February 15, 5
- 952M Sunitabai aani me
(Sunitabai and I)
Nripojagat, February issue, 13
- 953M Khagol vidnyan ka shikave?
(Why study astronomy?)
Marathi Vidnyan Parishad Patrika, March, 4

- 954M Vidnyan ani me : Me vaidnyanik kasa zalo?
(Science and me : How I became a scientist?)
Dnyanda, 25
- 955M Durbininchya purvi
(Before the telescopes arrived)
Learn More, May 15, 5
- 956M Yala jevan aise naav
(This is what is called a meal)
Panchavati Patrika, May
- 957M Nicolaus Copernicus
(Nicolaus Copernicus)
Learn More, June 15, 5
- 958M Bahurangi pratibhecha vaidnyanik
(Fred Hoyle : Scientist of Multi-Faceted Talents)
Learn More, July 15, 5
- 959M Nate akashashi...
(Relationship to the sky)
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- 960M Vidnyanacha sandesh : vividhatetil ekata
(Unity amongst diversity : The message of science)
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- 961M Mahan ganiti 'Gauss'
(Great mathematician 'Gauss')
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- 962M Chakravuha
(Mazes)
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- 963M Me vaidnyanik kasa zalo?
(How I became a scientist?)
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- 964M Apaharan
(Kidnapped)
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- 965M Gangatiri aani grantakathi
(Fom Ganges to Granta)
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- 966M Aakadyanche chatatkar
(Fun with numbers)
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- 967E Sky-gazing for survival
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- 968E Educating India
The Asian Age, February 16
- 969E Deemed unfit
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- 970E Chandra's influence on Indian astronomy
Physics News, **41**, 2, 91
- 971E Don't blind kids with science
The Asian Age, April 13
- *972E To appreciate excellence : The core of positive learning
University News, **49**, 14, 25
Convocation address delivered at the Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar.
- 973E Shani & Mangal of futurology
The Asian Age, May 11
- 974E The message from Aristarchus (Comic Serial Episode 1 : John Pringle)
Brainwave, May, 26
- 975E Monkeys, morals, mathematics
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- 976E The message from Aristarchus (Comic Serial Episode 2 : Alok)
Brainwave, June, 25
- 977E The great illusion in twilight zone
The Asian Age, July 6
- 978E The message from Aristarchus (Comic Serial Episode 3 : The space academy)
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- 979E Cosmic catastrophes
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- 980E Frontiers of free inquiry
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- 981E The message from Aristarchus (Comic Serial Episode 4 : Cyclops)
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- 982E Taxila aglow, but Nalanda in shadow
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- 983E The message from Aristarchus (Comic Serial Episode 5 : The Message)
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- 984E The message from Aristarchus (Comic Serial Episode 6 : Aristarchus)
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- 985E Arithmetic of nostalgia
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- 986E Who is faster : you or light?
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- 987E The Mahamana: A connoisseur and collector of excellence
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- 988E The science of plagiarism
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- 989H Dnyan-vidnyan ke shetra mein Hindi
(The role of hindi in the fields of knowledge and science)
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- 990H Hindi se hi pategi vidnyan aur samaj ke beech ki khaee
(Through Hindi alone, can we bridge the gap between science and society?)
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- 991H Jai Varanasi Express.
(Three cheers for Varanasi Express)
Chakmak, December
- 992M Vidnyanachya aika haka
(Listen to the call of science)
Sakal, January 1
- 993M Vidnyanachya aika haka
(Listen to the call of science)
Shikshan Sankraman, February, 5
- 994M Vidnyan shetrat don pavale magech!
(Two steps backwards in the scientific fields)
Loksatta, May 1
- 995M te hi no divasa gataha
(Gone are those old days)
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- 996M Jai Varanasi Express.
(Three cheers for Varanasi Express)
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- 997M Vidnyankathechya gabhyat
(Into the heart of science fiction)
Sanvedana, 30
- 998M Ek purushottam
(One of the best amongst men)
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- 999M Galileo ne ghadavun aanaleli kranti
(The revolution brought about by Galileo)
Shikshan Sankraman, November, 10
- 1000S Ahimsa paramo dharmah
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