

## Jayant V Narlikar

### LIST OF PUBLICATIONS – III

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#### Books Authored or Edited

A: Books authored by JVN

T: Books by JVN translated by others

E: Books edited by JVN

**The books on science fiction are marked with an asterisk.**

- 1A     ASTROPHYSICS  
(Co-authors: R.J. Tayler, W. Davidson and M.A. Ruderman)  
W.A. Benjamin, London, 1969
- 2A     ACTION AT A DISTANCE IN PHYSICS AND COSMOLOGY  
(Co-author: Fred Hoyle)  
W.H. Freeman and Company, San Francisco, 1974
- 3A     GANIT ANI VIDNYAN (Mathematics and Science)  
(in Marathi)  
Mumbai Marathi Grantha Sangrahalaya, Bombay, 1975
- 4A     THE STRUCTURE OF THE UNIVERSE  
Oxford University Press, Oxford, 1977
- 5A     GENERAL RELATIVITY AND COSMOLOGY  
The Macmillan Company of India Ltd., New Delhi, 1978
- 6A     VIDNYAN ANI MANAVACHA JEEVAN SANGHARSH (Science and Human Survival)  
(in Marathi)  
Deccan Education Society, Pune, 1979
- \*7A    YAKSHANCHI DENAGI (The Gift of the Yakshas)  
(in Marathi)  
Mauj Printing Bureau, Bombay, 1979
- 8A     THE PHYSICS ASTRONOMY FRONTIER  
(Co-author: Fred Hoyle)  
W.H. Freeman and Company, San Francisco, 1980
- 9E     GRAVITATION, QUANTA AND THE UNIVERSE  
(Proceedings of the Einstein Centenary Symposium, 1979 at  
Ahmedabad; co-editors: A.R. Prasanna and C.V. Vishveshwara) Wiley  
Eastern, New Delhi, 1980

- 10A KHAGOLSHASTRACHE VISHVA (The Astronomical Universe)  
(in Marathi)  
Maharashtra State Board of Education and Culture, Bombay, 1982
- 11A VIOLENT PHENOMENA IN THE UNIVERSE  
Oxford University Press, Oxford, 1982
- 12A THE LIGHTER SIDE OF GRAVITY  
W.H. Freeman and Company, San Francisco, 1982
- 13A INTRODUCTION TO COSMOLOGY  
Jones and Bartlett, Boston, 1983
- \*14A PRESHIT (The One Who Was Sent)  
(in Marathi)  
Mauj Printing Bureau, Bombay, 1983
- 15E GRAVITATION AND RELATIVISTIC ASTROPHYSICS  
(Proceedings of the Ahmedabad Workshop, 1982;  
Co-editors: A.R. Prasanna and C.V. Vishveshwara)  
Indian Academy of Sciences, Bangalore, 1984
- 16T LA STRUTTURA DELL' UNIVERSO  
(in Italian: translation of 4A by Gianluigi Mainardi)  
Piccola Biblioteca Einaudi, Rome, 1984
- 17A VIGYAN MANAV AUR BRAHMAND (Science, Man and the Cosmos)  
(in Hindi)  
Rajpal and Sons, Delhi, 1985
- 18A FROM BLACK CLOUDS TO BLACK HOLES  
World Scientific Publishing Company, Singapore, 1985
- 19E A RANDOM WALK IN GENERAL RELATIVITY AND COSMOLOGY  
(Festschrift for Professors P.C. Vaidya and  
A.K. Raychaudhuri; co-editors: N.K. Dadhich  
J. Krishna Rao and C.V. Vishveshwara)  
Wiley Eastern, New Delhi, 1985
- \*20A ANTARALATALA BHASMASUR (Bhasmasur in Space)  
(in Marathi)  
Shrividya Prakashan, Pune, 1985
- 21A A JOURNEY THROUGH THE UNIVERSE  
National Book Trust's Nehru Bal-Pustakalaya, New Delhi, 1986
- 22T STRUKTURA WSZECHS'WIATA  
(in Polish: translation of 4A by Adam Mazurkiewicz)  
Panstwowe Wydawnictwo Naukowe, Warsaw, 1985

- 23T VIOLENT PHENOMENA IN THE UNIVERSE  
(in Russian: translation of 11A by G.V. Budnika)  
Mir Publications, Moscow, 1985
- 24T THE LIGHTER SIDE OF GRAVITY  
(in Russian: translation of 12A by G.I. Blinnikova)  
Mir Publications, Moscow, 1985
- \*25T DHOOMKETU (The Comet)  
(in Hindi: short stories from 7A and 20A translated by Rekha Deshpande)  
Rajpal and Sons, Delhi, 1986.
- 26A GRAVITY, GAUGE THEORIES AND QUANTUM COSMOLOGY  
(Co-author : T. Padmanabhan)  
D. Reidel, Dordrecht, 1986
- \*27A VAMAN PARAT NA ALA (Vaman did not return)  
(in Marathi)  
Mauj Printing Bureau, Bombay, 1986
- 28T THE LIGHTER SIDE OF GRAVITY  
(in Japanese: translation of 12A by K. Nakamura)  
Nikkei Science, Inc, Tokyo, 1986)
- 29T UNE GRAVITATION SANS GRAVITE  
(in French: translation of 12 A by Jean-Pierre Maury)  
Payot, Paris, 1986.
- \*30T TROYNO GHODO (The Trojan Horse)  
(in Gujarati : short stories from 7A and 20A translated by Bharat Pathak)  
Gurjar Grantharatna Karyalaya, 1987
- 31T LE ESTRUCTURA DEL UNIVERSO  
(in Spanish : Translation of 4A by Artur Klein)  
Alienza Editorial, Madrid, 1987
- 32T FENS'MENOS VIOLENTOS EN EL UNIVERSO  
(in Spanish: translation of 11A by Artur Klein)  
Alienza Editorial, Madrid, 1987.
- \*33A AGANTUK (The guest)  
(in Hindi)  
Rajpal and Sons, Delhi, 1988
- 34A THE PRIMEVAL UNIVERSE  
Oxford University Press, Oxford, 1988
- \*35A THE RETURN OF VAMAN  
Ravi Dayal Publisher, Delhi, 1988

- 36A VISHVACHI SAHAL (A Journey Through the Universe)  
(in Marathi)  
National Book Trust's Nehru Bal-Pustakalaya, New Delhi, 1988
- 37E HIGHLIGHTS IN GRAVITATION AND COSMOLOGY  
(Proceedings of ICGC-87; co-editors: B.R. Iyer, A. Kembhavi, and  
C.V. Vishveshwara)  
Cambridge University Press, Cambridge, 1988
- 38A THE FRONTIER BETWEEN PHYSICS AND ASTRONOMY  
(IIT Madras Series in Science and Engineering)  
Macmillan India Limited, Delhi, 1989
- 39T VISHVANI UTPATTI (Origin of the Universe)  
(in Gujarati : translated by J.J. Rawal)  
Parichaya Trust, Bombay, 1989
- 40T THE PHYSICS ASTRONOMY FRONTIER  
(in Chinese: translation of 8A by Xiang Tao He)  
Beijing, 1989
- 41T THE LIGHTER SIDE OF GRAVITY  
(in Greek: translation of 12 A by Andreas I. Kathetas)  
Bibliotheka Groxalia, Athens, 1989
- 41aT FROM BLACK CLOUDS TO BLACK HOLES  
(in Russian : translation of 18A)  
Energo-Atomizdat, Moscow, 1989
- 42A BRAHMAND KI KUCHH JHALAKEN (A Few Glimpses of the Universe)  
(in Hindi)  
Madhya Pradesh Hindi Granth Akademi, Bhopal, 1990
- 43A VIDNYANACHI GARUDA JHEP (The Leap-frogging of Science)  
(in Marathi)  
Shrividya Prakashan, Pune, 1990
- 44A VIDNYAN ANI VAIDNYANIK (The Science and the Scientists)  
(in Marathi)  
Shrividya Prakashan, Pune, 1990.
- 45A TARONKI JEEVAN GATHA (The Life Story of Stars)  
(in Hindi)  
Read and Learn Series of NCERT, Delhi, 1990
- \*46T AA LOKAMU (From other worlds)  
(in Telegu: translation of 14A by Sujanadevi Acharya)  
Orient Longman, Hyderabad, 1990.

- \*47T VAMAN NAHIN LAUTA  
(in Hindi: translation of 27A by Prabhakar Machwe)  
Rajpal and Sons, Delhi, 1990
- 48T FROM BLACK CLOUDS TO BLACK HOLES  
(in Japanese : translation of 18A by Tadaoki Yoneyama and Kenji Urata)  
Maruzen Co. Ltd., Tokyo, 1990
- \*49T YAKSHOPAHAR (The gift of the yakshas)  
(in Hindi : translation of a collection of Marathi stories from 7A and  
20A by Sunita Paranjape)  
Bharatiya Gyanapeetha Prakashan, 1991
- 50T VISHVAYAN (The Cosmic Spaceship)  
(in Kannada : translation of 21A by G.T. Narayana Rao), 1991
- 51E VIDNYANACHE RACHAYITE (The Creators of Science)  
(in Marathi : series of 12 booklets on famous scientists by R.V. Sovni)  
Oxford University Press, Bombay, 1991
- \*52A THE MESSAGE FROM ARISTARCHUS  
Clarion Books, New Delhi, 1992
- 53A GANITATALYA GAMATI-JAMATI (Recreations in Mathematics)  
(in Marathi)  
Manovikas Prakashan, Bombay 1992
- 54A VISHVACHI RACHANA (The Origin of the Universe)  
(in Marathi)  
Wiley Eastern, Delhi 1992
- \*55A ANTARALATIL SPHOT (The Cosmic Explosion)  
(Science Fiction Novel in Marathi; also translated in English under the title 'The Cosmic Explosion' by Sujata  
Godbole and in Hindi under the title 'Antarikshamein Visphot' by Surekha Panandikar)  
Sahitya Akademi, Delhi, 1992
- 56A ASTROFISICA (Astrophysics)  
(in Italian)  
Jaca Book, 1992
- 57E PHILOSOPHY OF SCIENCE : Perspectives from Natural and Social Sciences  
(Co-editors : Indu Banga and Chhanda Gupta)  
Indian Institute of Advanced Study, Simla and Munshiram Manoharlal Publishers, Delhi, 1992
- 58A INTRODUCTION TO COSMOLOGY (2nd Edition)  
Cambridge University Press 1993  
Also published by Foundation Books, New Delhi, 1993
- 59E ASTRONOMY IN INDIA : PAST, PRESENT AND FUTURE  
(Co-editor : R. Kochhar)  
IUCAA, Pune and IIA, Bangalore, 1993

- 60A SHODH (Invention)  
(in Marathi)  
(edited and published by Dr. Chitra Naik, Indian Institute of Education, Pune, 1993)
- 61A ANTARALATIL SURAS ANI CHAMATKARIK GOSHTI  
(Interesting and wondrous happenings in the Sky)  
(in Marathi)  
(edited and published by Dr. Chitra Naik, Indian Institute of Education, Pune, 1993)
- \*62A TIME MACHINECHI KIMAYA (Miracle of the Time Machine)  
(in Marathi)  
Srividya Prakashan, Pune, 1994
- 63A GANITACHI GOSHT (The Tale of Mathematics)  
Co-author : M.J. Narlikar  
(in Marathi)  
(published by Sarojini Babar in Samaj Shikshan Mala, 529, Pune, 1994)
- 64E SRUSHTI VIDNYAN GATHA : EKVISAVYA SHATAKACHA SANGATI  
(World Science Saga - Companion of the 21st Century)  
(in Marathi)  
(edited by J.V. Narlikar, authored by Shriram Geet and published by Rajhans Prakashan, Pune, 1994)
- 65A POSTKARDATUN VIDNYAN (Science through Postcards)  
(in Marathi)  
Marathi Vidnyan Parishad, Mumbai, 1995
- 65aA VIDNYANGANGECHI AVAKHAL VALANE (The Meandering Flow of Science)  
(in Marathi)  
Manovikas Prakashan, Mumbai, 1995
- 66T MAHABISHYE BHRAMAN :  
(in Bengali : translation of 21A by Ishani Raychoudhury)  
National Book Trust, New Delhi, 1995
- 67T ANTARIKSHA BISPHORAN :  
(in Bengali : translation of Antaralateel Sphot by Manabendra Bandyopadhyay)  
Sahitya Academy, New Delhi, 1995
- 68A FROM BLACK CLOUDS TO BLACK HOLES- Second Edition  
World Scientific Publishing Co., Singapore, 1995
- 69T BRAHMANAND KI YATRA  
(in Hindi : translation of 21A by Krishna Kumar)  
National Book Trust, New Delhi, 1995
- 70E PROCEEDINGS OF THE SIXTH ASIAN-PACIFIC REGIONAL MEETING OF  
ASTRONOMY OF THE INTERNATIONAL ASTRONOMICAL UNION  
Eds. J.V. Narlikar, N.K. Dadhich, V.K. Kapahi and G. Swarup, 1995

- \*71A VIRUS  
(in Marathi)  
Mauj Prakashan Griha, Bombay, 1996
- 72A COSMOLOGY AND ACTION AT A DISTANCE ELECTRODYNAMICS  
(Co-author: Fred Hoyle)  
World Scientific Publishing Co., Singapore, 1996
- 73A ELEMENTS OF COSMOLOGY  
Educational Monograph of the Jawaharlal Nehru Centre for Advanced  
Scientific Research, Bangalore  
Universities Press, Hyderabad, 1996
- 74A THE LIGHTER SIDE OF GRAVITY  
Revised Second Edition  
Cambridge University Press, Cambridge, 1996
- 75E ASTRONOMY IN INDIA: A PERSPECTIVE  
(Co-author: Rajesh Kochhar)  
A Diamond Jubilee Publication of the Indian National Science Academy,  
New Delhi.
- 76E SPECIAL SECTION ON PROFESSOR SUBRAHMANYAN CHANDRASEKHAR  
Current Science, Volume 70 No. 9, 1996
- 77E SOME ASPECTS OF GRAVITATION AND COSMOLOGY  
Published by IUCAA, 1996
- \*78T MAHAJAGATIC BISHFORON  
(in Bengali: Translation of articles and science fiction stories)  
Shaibya Prakashan Bibhag, Calcutta, 1997
- \*78aT VAMAN PHIRLO NA  
(in Bengali : Translation of 27A by Subrata Basu)  
Sahitya Akademi, New Delhi, 1997
- 79E PHYSICS OF COMETS  
Book in the Astronomy and Astrophysics Series, by K.S. Krishna Swamy  
World Scientific Publishing Co., Singapore, 1997
- 80E SOLAR AND INTERPLANETARY DISTURBANCES  
Book in the Astronomy and Astrophysics Series, by S.K. Alurkar  
World Scientific Publishing Co., Singapore, 1997
- 81A AAKASHASHI JADALE NATE (Popular Account of Astronomy)  
(in Marathi)  
Rajhans Prakashan, Pune, 1998
- 82A YALA JEEVAN AISE NAV (That is Life!)  
(in Marathi)  
Shrividya Prakashan, Pune, 1998

- 83E GRAVITATION AND RELATIVITY : AT THE TURN OF MILLENNIUM  
(Co-editor : Naresh Dadhich)  
Proceedings of the GR-15 Conference held at IUCAA, Pune, India during  
December 16-21, 1997
- 84T LZEJSZA STRONA GRAWITACJI  
(in Polish: translation of 73A by Jerzy Lewinski)  
Wydawnictwo Amber Sp.z.o.o.1998
- 85T ATITHI  
(in Malayalam : translation of 14A by K. Krishnan Kutty)  
D.C. Books, Kottayam, 1998
- 86A MOTION AND GRAVITY  
Book in the Exploratory Series,  
Shekhar Phatak & Associates, Pune, 1999
- 87A QUASARS AND ACTIVE GALACTIC NUCLEI : AN INTRODUCTION  
(Co-author: Ajit K. Kembhavi)  
Cambridge University Press, Cambridge, 1999
- 88A SEVEN WONDERS OF THE COSMOS  
Cambridge University Press, Cambridge, 1999
- 89A A DIFFERENT APPROACH TO COSMOLOGY  
(Co-authors : Fred Hoyle and Geoffrey Burbidge)  
Cambridge University Press, Cambridge, 2000
- 90T MAHA VISWE MAHAKASHE  
(in Bengali : translation of a collection of science essays on astronomy and astrophysics)  
Shaibya Prakashan Bibhag, Calcutta, 2000
- 91T LAS SIETE MARAVILLAS DEL COSMOS  
(in Spanish : translation of 88A by Dulcinea Otero Pineiro and David Galadi-Enriquez)  
Cambridge University Press, Cambridge, 2000
- 92T A COSMIC ADVENTURE  
(in English : translation of 81A by M.J. Narlikar)  
Rajhans Prakashan, Pune, 2000
- 93T VIRUS  
(in Hindi : translation of 71A by J.V. Narlikar)  
Rajkamal Prakashan, Pvt. Ltd., New Delhi, 2000
- 94T Η ΦΩΤΕΙΝΗ ΠΛΕΥΡΑ ΤΗΣ ΒΑΡΥΤΗΤΑΣ  
(in Greek : translation of 74A by Β' ΕΚΔΟΣΗ)  
Katoptro Publications, Greece, 2000

- 95A FUN AND FUNDAMENTALS OF MATHEMATICS  
(Co-author : Mangala J. Narlikar)  
Universities Press (India) Ltd., Hyderabad, 2001
- 96T SCIENCE THROUGH POST-CARDS  
(in English : translation of 65A by M.J. Narlikar)  
Marathi Vidnyan Parishad, Mumbai, 2001
- 97T DIE SIEBEN WUNDER DES UNIVERSUMS  
(in German: translation of 88A by von Helmut Mennicken  
Roger & Bernhard GmbH & Co., Germany, 2001
- 98T SEVEN WONDERS OF THE COSMOS  
(in Chinese : translation of 88A)  
Cambridge University Press, Cambridge, 2001
- 99A ANTARAL ANI VIDNYAN (Space and Science)  
(in Marathi)  
Navachaitanya Prakashan, Mumbai, 2002
- \*100A ABHAYARANYA (Sanctuary)  
(in Marathi)  
Mouj Prakashan Griha, Mumbai, 2002
- 101A AN INTRODUCTION TO COSMOLOGY (Third Edition)  
Cambridge University Press, Cambridge, 2002
- 102T TA 7 ΘΑΥΜΑΤΑ ΤΟΥ ΣΥΜΠΛΗΡΟΥΣ  
(in Greek : translation of 88A)  
P. Travlos Publishers, Greece, 2002
- 103T cegeM: uygeca Ha kocMoca  
(in Bulgarian : translation of 88A)  
Press Syndicate of the University of Cambridge, U.K., 2002
- 104T A JOURNEY THROUGH THE UNIVERSE  
(in Oriya : translation of 21A)  
National Book Trust, India, New Delhi, 2003
- 105A VIRUS  
Scholastic India Pvt Ltd., Gurgaon, 2003
- 106A THE SCIENTIFIC EDGE  
Penguin Books India (P) Ltd., New Delhi, 2003
- 107T LE SETTE MERAVIGLIE DEL COSMO  
(in Italian : translation of 88A)  
Codice Edizioni, Torino, 2004

- 108A KHAGOL SHASTRA : PRASNOTARE (Astronomy : Question Answers)  
(in Marathi)  
Marathi Vidnyan Parishad, Mumbai, 2004
- 109T AVAKASHI SANDESH-VAHAK  
(in Gujarati : translation of 14A by Bharat Pathak)  
Gurjar Grantha Ratna Karyalaya, Ahmedabad, 2004
- 110A BLACK HOLES  
National Book Trust, India, New Delhi, 2005
- 111A TALES OF THE FUTURE  
Witness Books, Delhi, 2005
- 112A HOW & WHY IN ASTRONOMY  
Marathi Vidnyan Parishad, Mumbai, 2005
- 113E FUNDAMENTALS OF SOLAR ASTRONOMY  
Book in the Astronomy and Astrophysics Series by A. Bhatnagar and W. Livingston  
World Scientific Publishing Co. Pte. Ltd., Singapore, 2005
- 114E DUST IN THE UNIVERSE : SIMILARITIES AND DIFFERENCES  
Book in the Astronomy and Astrophysics Series by K.S. Krishna Swamy  
World Scientific Publishing Co. Pte. Ltd., Singapore, 2005
- 115E STARDUST FROM METEORITES : AN INTRODUCTION TO PRESOLAR GRAINS  
Book in the Astronomy and Astrophysics Series by Maria Lugaro  
World Scientific Publishing Co. Pte. Ltd., Singapore, 2005
- 116T BHARAT KI VIGYAN-YATRA  
(in Hindi : translation of 106A by Vinod Kumar Mishra)  
Prabhat Prakashan, New Delhi, 2005
- 117T GOODBYE VAMAN  
(in Telugu : translation of 27A by Sujanadevi Acharya)  
Sahitya Akademi, Bangalore, 2005
- 118E AN INVITATION TO ASTROPHYSICS  
Book in the Astronomy and Astrophysics Series by T. Padmanabhan  
World Scientific Publishing Co. Pte. Ltd., Singapore, 2006
- 119E FIND A HOTTER PLACE! A HISTORY OF NUCLEAR ASTROPHYSICS  
Book in the Astronomy and Astrophysics Series by L.M. Celnikier  
World Scientific Publishing Co. Pte. Ltd., Singapore, 2006
- 120E CURRENT ISSUES IN COSMOLOGY  
(Co-editor : Jean-Claude Pecker)  
Cambridge University Press, Cambridge, 2006

- 121T ROMANCHAK VIGYAN KATHAYEN  
(in Hindi : translation of 111A by Sachin Sinhal)  
Vidya Vihar, New Delhi, 2006
- 122A VIDNYANGANGECHI AVAKHAL VALANE (The Meandering Flow of Science) (Second Edition)  
(in Marathi)  
Manovikas Prakashan, Pune, 2007
- \*123A SURYACHA PRAKOP (When the Sun got angry)  
(in Marathi)  
Shrividya Prakashan, Pune, 2008
- 124A NABHAT HASARE TARE (The smiling stars in the sky)  
(Co-authors : Ajit Kembhavi and Mangala Narlikar)  
(in Marathi)  
Rajhans Prakashan, Pune, 2008
- 125A FACTS AND SPECULATIONS IN COSMOLOGY  
(Co-author : Geoffrey Burbidge)  
Cambridge University Press, Cambridge, 2008
- 126A VIGYAN AUR GALP (Science and Fiction)  
(in Hindi)  
Madhya Pradesh Hindi Granth Akademi, Bhopal, 2009
- 127E SCIENCE IN INDIA  
PHISPC, New Delhi and VIVA Books, New Delhi, 2009
- 128A AN INTRODUCTION TO RELATIVITY  
Cambridge University Press, Cambridge, 2010
- 129A SHAKE-UP INDIA  
Global Vision Press, New Delhi, 2010