

ISSN 0974 - 3340

S

U

T

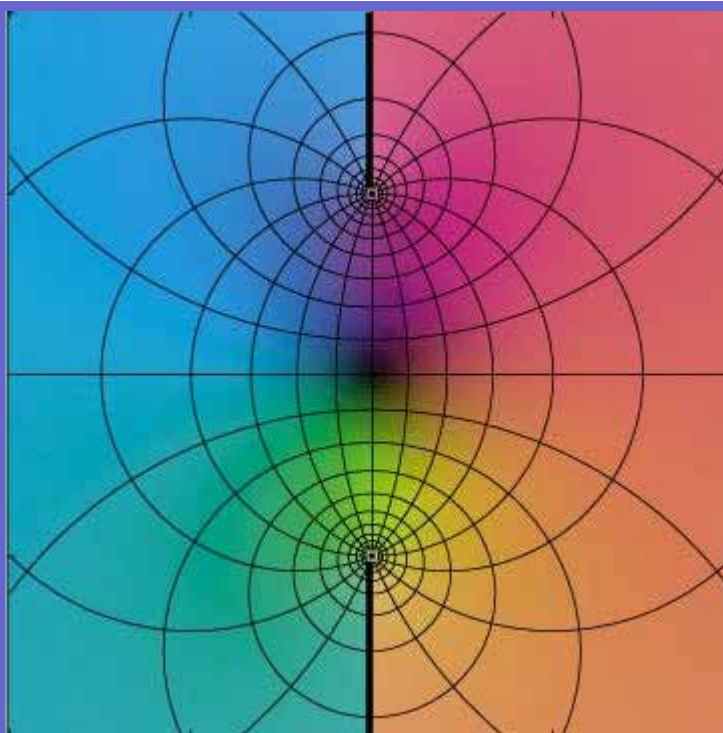
R

A

International Journal of

Mathematical Science Education

VOLUME 1, ISSUE 1 JULY-DECEMBER 2008



Published by

Technomathematics Research Foundation, India

Sutra: International Journal of Mathematical Science Education

EDITORIAL BOARD

Editorial Advisor:

Arvindkumar, Professor & Director, Homi Bhabha Centre for Science Education, TIFR, Mumbai, India.

Editorial Coordinator:

Rupali Akerkar Technomathematics Research Foundation, Kolhapur, India.

Editors:

Carmen Batanero, University of Granada, Campus de Cartuja, Granada, Spain.

Lokenath Debnath, Chair Professor of Mathematics, University of Texas-Pan American, Edinburg, Texas, USA.

Paul Ernest, Emeritus Professor of Mathematics Education, University of Exeter, UK.

Laxman Hegde, Professor of Statistics, Frostburg State University, Frostburg, USA.

Paulus Gerdes, Vice-President for S. Africa, African Academy of Sci., Research Centre for Mathematics, Culture & Education, Mozambique.

A. Krishnamoorthy, Professor & Head, Mathematics Department, Cochin University of Science & Technology, Kochi, India.

Hee-chan Lew, Professor of Mathematics Education, Korea National University of Education, Chungbuk, South Korea.

Victor Ohanyan, Professor of Mathematics, American University of Armenia, Armenia.

D. P. Patil, Professor of Mathematics, Indian Institute of Science, Bangalore, India.

L. Radhakrishna, Retd. Professor & Head, Department of Mathematics Shivaji University, India.

Geetha S.Rao, Retd. Professor, Ramanujan Institute, University of Madras, Chennai, India.

V Ravichandran, Reader, Department of Mathematics, University of Delhi, India

Fernando Díez Rubio, Departamento de Ingeniería Informática, Universidad Autónoma de Madrid, Spain.

Anand P. Singh, Professor of Mathematics, University of Jammu, Jammu, India.

Arindama Singh, Professor of Mathematics, Indian Institute of Technology Madras, Chennai, India.

Nada Stehlikova, Faculty of Education, Charles University, Prague, Czech Republic.

K. G. Subramanian, Professor of Mathematics, Universiti Sains Malaysia, Malaysia.

Mike Thomas, A/Prof. & Head, Mathematics Education Unit, The University of Auckland, Auckland, New Zealand.

Editorial Office: Technomathematics Research Foundation,

204/17 Kh, New Shahupuri, Kolhapur 416001, India.

E-mail: director@tmrfindia.org

Copyright ©2008 Technomathematics Research Foundation.

All rights reserved. This journal issue or parts thereof may not be reproduced in any form or by any means, electrical or mechanical, including photocopying, recording or any information storage and retrieval system now known or to be invented, without written permission from the copyright owner.

Permission to quote from this journal is granted provided that the customary acknowledgement is given to the source.

Sutra: International Journal of Mathematical Science Education (ISSN 0974 – 3340) is high quality electronic journal published six-monthly by Technomathematics Research Foundation, Kolhapur, India.

URL: www.tmrfindia.org/sutra.html.





CONTENTS (Vol. 1, No. 1, 2008)

Editorial <i>Rupali Akerkar</i>	iii
1. Mathematics Thrillerium <i>L. Radhakrishna.</i>	1 - 8
2. Accurate Solution Estimate and Asymptotic Behavior of Nonlinear Discrete System <i>Trupti P Shah and Raju K George.</i>	9 - 15
3. On Divisibility Tests And The Curriculum Dilemma <i>Yaakov Nahir.</i>	16 - 29
4. Class-room Notes <i>R. Akerkar.</i>	30 - 35
5. Mathematical Puzzle.	36

* Cover graphics: complex function $\text{atan}(z)$ using Mathlab™



EDITORIAL (Vol. 1, No. 1, 2008)

It is with great pleasure we present this inaugural issue of *Sutra* to our readers. This journal is being published by the Technomathematics Research Foundation, India as a part of its initiatives to contribute constructively to mathematical science education in schools and universities. We hope through *Sutra* to reach researchers, students and teachers of mathematical sciences all over the world.

We would like to target audience from under-graduate classes and their teachers of mathematics. However, we do intend to include material of interest to graduate students and researchers in mathematical sciences. The *Sutra* issue will be published twice a year and we hope to include variety of contributions: research articles, general articles, series devoted to different aspects of a chosen topic in mathematical sciences, classroom notes for teachers and students, book reviews, to name a few.

We welcome contributions, comments and suggestions from our readers. Our constant endeavour will be to enhance the quality and accessibility of material to our readers.

Our editorial board members, referees and colleagues have given us academic and moral support. We thank them all and express the hope that they and our contributors and readers will continually keep in touch with us and support this effort.

Rupali Akerkar
Editorial Coordinator