



SRINIVASA RAMANUJAN LIBRARY
Indian Institute of Science Education and Research Pune
Dr. Homi Bhabha Road, Pune - 411008. India.
e-mail: libraryservices@iiserpune.ac.in

Monthly Bulletin of New Additions of Books JUNE 2024

Contents

Subject	Page No
<u>Ph.D THESES</u>	2
<u>GENERALITIES</u>	5
<u>PSYCHOLOGY</u>	6
<u>SOCIAL SCIENCES</u>	6
<u>POLITICAL SCIENCE</u>	6
<u>ECONOMICS</u>	7
<u>PUBLIC ADMINISTRATION</u>	7
<u>NATURAL SCIENCES</u>	7
<u>MATHEMATICS</u>	8
<u>PHYSICS</u>	10
<u>EARTH SCIENCES</u>	11
<u>LIFE SCIENCES</u>	11
<u>ZOOLOGICAL SCIENCES</u>	11
<u>AGRICULTURE</u>	11
<u>ARTS</u>	12
<u>LITERATURE & RHETORIC</u>	12

Ph.D THESES

Gokhale, Pallavee

[Signs of Harappan culture: contextual narratives of excavated artefacts.](#)

Pune: IISER Pune, NOV-2023. XXVIII, 421.

300/GOK

TH511

Joshi, Swapna

[Celestial impact: a cultural narrative of Lonar Crater through architectural forms.](#)

Pune: IISER Pune, OCT-2023. XVII, 289.

300/JOS

TH480

Dighe, Pavankumar

[Exploring equivariant Chow groups for complexity one T-varieties via downgrading techniques](#)

Pune: IISER Pune, APR-2024. 65.

510/KAL

TH482

Batra, Priya

[Characterization and control of quantum dynamics: computational methodology developments and NMR demonstrations.](#)

Pune: IISER Pune, MAY-2024. XXII, 150.

530/BAT

TH474

Bhowmick, Anindita

[Different mechanistic aspects of Photoredox catalysis and its application in organic transformations.](#)

Pune: IISER Pune, DEC-2023. XXVII, 280.

540/BHO

TH502

C D, Neethu

[Design and development of rechargeable proton battery.](#)

Pune: IISER Pune, MAR-2024. 100.

540/FAJ

TH499

Ghosh, Pulak

[Environment-sensitive nucleotide analogs serve as good substrates and probes to study the activity of nucleic acid processing enzymes.](#)

Pune: IISER Pune, MAR-2024. XV, 185.

540/GHO

TH506

Mandal, Writakshi

[Advanced porous materials for environmentally relevant toxic pollutants detection and sequestration.](#)

Pune: IISER Pune, SEP-2023.

540/MAN

TH489

Maniyar, Mohammed Khuddus

[L-Aspartic acid based functional polyester for drug delivery and antimicrobial applications.](#)

Pune: IISER Pune, OCT-2023. 232.

540/MAN

TH485

Metya, Surajit

[Exploring the nature and strength of S H···O hydrogen bond employing gas phase laser spectroscopy and quantum chemistry calculations.](#)

Pune: IISER Pune, JAN-2023. XVI, 175.

540/MET

TH478

[Go to top](#)

Mukhopadhyay, Sanchayita

[Ligand assisted molecular electrocatalysis and molecular charge storage.](#)

Pune: IISER Pune, APR-2024. V, 226.

540/MUK

TH503

Nalawade, Sachin A.

[Synthesis and utilization of non-ribosomal amino acids consisting of carbon-carbon double bonds in the design of hybrid peptide foldamers](#)

Pune: IISER Pune, FEB-2024. VI, 346.

540/NAL

TH504

Pahan, Saikat

[Design, construction, and conformational analysis of gamma peptide double helices.](#)

Pune: IISER Pune, DEC-2023. V, 292.

540/PAH

TH494

Panwaria, Prakash

[Intra and intermolecular modulation of n→π* non-covalent interaction: gas-phase laser spectroscopy and quantum chemistry calculations](#)

Pune: IISER Pune, DEC-2023. XXVIII, 222.

540/PAN

TH479

Roy, Naveen Joseph

[Development of transmembrane ion transport systems for biomedical applications.](#)

Pune: IISER Pune, DEC-2023. XIX, 355.

540/ROY

TH509

Roy, Souvik

[Metal-mediated self-assembled architectures of structured peptides.](#)

Pune: IISER Pune, MAR-2024. V, 255.

540/ROY

TH498

Sahoo, Supriya

[Organic and hybrid organic-inorganic two component ferroelectric materials and their energy harvesting applications.](#)

Pune: IISER Pune, JAN-2024. XIII, 207.

540/SAH

TH484

Sen, Nilanjana

[Syntheses, reactivities and catalytic applications of low-valent compounds with p-block elements.](#)

Pune: IISER Pune, OCT-2023. 236.

540/SEN

TH496

Shaikh, Yasin Javed

[Direct C3-\(sp²\)-H alkenylation and C\(y-sp³\)-H arylation of five membered heteroaryl compounds via palladium catalysis: an access to novel compounds with photophysical properties](#)

Pune: IISER Pune, OCT-2023. XXII, 218.

540/SHA

TH486

Sharma, Rashmi

[Development of supramolecular channels for the selective transport of Chloride via Hydrogen and Halogen bond interaction.](#)

Pune: IISER Pune, JUN-2023.

540/SHA

TH490

[Go to top](#)

- Shukla, Pragati
[Synthesis, structural characterization and tuning electronic properties in planar and large Porphyrinoids.](#)
Pune: IISER Pune, JAN-2024. 142.
540/SHU
TH507
- Singh, Himan Dev
[Designed development of ultra-microporous, amine-rich and hydrophobic metal organic frameworks for humid CO₂ capture and natural gas purification.](#)
Pune: IISER Pune, JAN-2024. 169.
540/SIN
TH510
- Vijay, Amal
[Exploring molecular recognition of small molecule binding, protein-protein interactions, and RNA folding dynamics using enhanced sampling methods.](#)
Pune: IISER Pune, DEC-2023. XV, 144.
540/ VIJ
TH508
- Saishree, Amrita
[Characterization of the plant-derived isotopic proxies for precipitation reconstruction in the tropics.](#)
Pune: IISER Pune, JAN-2024. XIX, 116.
550/SAI
TH505
- Suryavanshi, Deepak
[2D DC Resistivity modeling for anisotropic subsurface with variable topography based on mimetic finite-difference method.](#)
Pune: IISER Pune, APR-2024. XV, 106.
550/SUR
TH476
- Aparna, Thulasidharan
[Age-dependent VAP\(p58s\) aggregation in a drosophila model of amyotrophic lateral sclerosis.](#)
Pune: IISER Pune, MAR-2023. IV, 128.
570/APA
TH491
- B, Vibishan
[Ecological and evolutionary processes at multiple scales of biological organization.](#)
Pune: IISER Pune, FEB-2024. XXVI, 203.
570/VIB
TH501
- Bapat, Mrinmayee
[Characterization of Spiroplasma citri Fibril:Insights into polymerization interface and interaction with other cytoskeletal proteins](#)
Pune: IISER Pune, OCT-2023. 152.
570/BAP
TH500
- Binayak, Gauri
[Host specialization: chemical ecology of a plant-insect herbivore system.](#)
Pune: IISER Pune, JUL-2023. 87.
570/BIN
TH488
- Dilsha, C
[Control of organ size and shape during the differential development of wing and haltere in drosophila.](#)
Pune: IISER PUNE, OCT-2023. X, 130.
570/DIL
TH497

[Go to top](#)

Kalra, Shikha
[Understanding the origin and function of introductory vocalizations before male zebra finch song.](#)
Pune: IISER Pune, OCT-2023. 164.
570/KAL
TH481

Khurana, Himani
[A novel membrane anchor in the PH-domain is indispensable for dynamin functions.](#)
Pune: IISER Pune, SEP-2023. IX, 82.
570/KHU
TH487

Malankar, Nilam Namdeo
[Investigating the functions of small non-coding RNAs in stolon-to-tuber transition stages of potato development.](#)
Pune: IISER Pune, AUG-2023. 157.
570/MAL
TH483

Roy, Krishnendu
[Regulation of mitochondrial quality control by membrane fission.](#)
Pune: IISER Pune, DEC-2023. 115.
570/ROY
TH492

Sharma, Ankita
[Understanding the regulation of transcription factor SP1 via Wnt and Hippo signaling pathways in colon development and cancer](#)
Pune: IISER Pune, OCT-2023. X, 167.
570/SHA
TH475

Tripathi, Sneha
[Statin mediated regulation of SATB family of proteins and \$\beta\$ -catenin in colorectal cancer.](#)
Pune: IISER PUNE, OCT-2023. IX, 131.
570/TRI
TH477

Uttekar, Bhavin
[Analysis of mitochondrial morphology dynamics in the maintenance of epithelial polarity in Drosophila oogenesis.](#)
Pune: IISER PUNE, MAR-2023. XXI, 115.
570/UTT
TH493

BOOKS

000 GENERALITIES

Gérard, Aurélien
[Hands-on machine learning with Scikit-Learn, Keras, and TensorFlow : concepts, tools, and techniques to build intelligent systems-3 ed.](#)
Sebastopol: O'Reilly Media, Inc., 2023. XXV, 819.
006.31/GER
27503

Chakrabarti, Anindya S.
[Data science for complex systems.](#)
Cambridge: Cambridge University Press, 2023. X, 293.
006.312/CHA
27521

[Go to top](#)

Hiesinger, Peter Robin
Self-assembling brain : how neural networks grow smarter.
Princeton: Princeton University Press, 2021. XIII, 364.
006.32/HIE
27510

150 PSYCHOLOGY

Barrett, Lisa Feldman
How emotions are made : the secret life of the brain.
London: Pan Books, 2018. XV, 425.
152.4/BAR
27485

Clark, Andy
Experience machine : how our minds predict and shape reality.
New York: Pantheon Books, 2023. XVI, 284.
153/CLA
27483

Dehaene, Stanislas
How we learn : the new science of education and the brain.
London: Allen Lane, 2020. XXVI, 319.
153/DEH
27487

300 SOCIAL SCIENCES

Walsh, Judith E.
Domesticity in colonial India : what women learned when men gave them advice.
Lanham: Rowman & Littlefield Publishers, 2004. XVIII, 235.
305.420954/WAL
27457

Singh, Roja
Spotted goddesses : Dalit women's agency-narratives on caste and gender violence.
New Delhi: Zubaan, 2019. IX, 255.
305.4844/SIN
27497

Pai, Sudha
Dalits in the new millennium.
New Delhi: Cambridge University Press, 2023. XV, 483.
305.568/PAI
27514

320 POLITICAL SCIENCE

Malla, Muzaffar Ali
India, Habermas and the normative structure of public sphere.
London: Routledge, Taylor & Francis Group, 2023. X, 163.
320.954/MAL
27517

[Go to top](#)

330 ECONOMICS

Goldin, Claudia Dale

[Career and family : women's century-long journey toward equity.](#)

Princeton: Princeton University Press, 2023. XII, 300.

331.4215/GOL

27476

Calogero, Simone

[First course in options pricing theory.](#)

Philadelphia: Society for Industrial and Applied Mathematics, 2023. XII, 286.

332.645/CAL

27524

Jodhka, Surinder S._Ed.

[Agrarian change in India.](#)

Hyderabad: Orient Blackswan Private Limited, 2022. XV, 410.

333.315/JOD

27471

350 PUBLIC ADMINISTRATION

Chowdhury, Neerja

[How prime ministers decide : an unprecedented, explosive look at how decisions are taken at the very top of the Indian political establishment.](#)

New Delhi: Aleph Book Company, 2023. XXVIII, 578.

354.54/CHO

27513

Stall, Sylvanus

[What a young husband ought to know.](#)

London: Forgotten Books, 2018. XXII, 300.

362.8286/STA

27501

Manabe, Syukuro

[Beyond global warming : how numerical models revealed the secrets of climate change.](#)

Princeton: Princeton University Press, 2020. XIV, 193.

363.7/MAN

27527

500 NATURAL SCIENCES

Abell, Sandra K._Ed.

[Handbook of research on science education.](#)

New York: Routledge, 2010. XIV, 1330.

507.1/ABE

27469

Kerridge, Simon_Ed.

[Emerald handbook of research management and administration around the world.](#)

Bingley: Emerald Publishing Limited, 2023. XLVI, 817.

507.2/KER

27520

[Go to top](#)

Zernike, Kate
[Exceptions : Nancy Hopkins, MIT, and the fight for women in science.](#)
New York: Scribner, 2023. XVI, 409.
509.2/ZER
27481

510 MATHEMATICS

Fuchs, Dmitry
[Mathematical omnibus : thirty lectures on classic mathematics.](#)
Hyderabad: Universities Press, 2007. XV, 463.
510/FUC
GB3146

Calkin, Neil J.
[Computational discovery on Jupyter.](#)
Philadelphia: Society for Industrial and Applied Mathematics, 2023. XVIII, 397.
510.2855/CAL
27512

Jain, Anupam_Ed.
[Mathematics in ancient Jaina literature.](#)
New Jersey: World Scientific Publishing, 2023. XIV, 232.
510.954/JAI
GB3139

Plofker, Kim
[Mathematics in India.](#)
Princeton: Princeton University Press, 2009. XI, 357.
510.954/PLO
27455

Van Mieghem, Piet
[Graph Spectra for Complex Networks. - 2 ed.](#)
Cambridge: Cambridge University Press, 2023. XIX, 515.
511.5/VAN
27522

Meyer, Carl D.
[Matrix analysis and applied linear algebra. - 2 ed.](#)
Philadelphia: Society for Industrial and Applied Mathematics, 2023. XIV, 991.
512.5/MEY
27525

Bóna, Miklós
[Walk through combinatorics : an introduction to enumeration, graph theory, and selected other topics. - 5 ed.](#)
New Jersey: World Scientific Publishing, 2024. XXI, 613.
511.6/BON
GB3138

Vinberg, E. B.
[Course in algebra.](#)
Providence : American Mathematical Society, 2003. X, 511.
512/VIN
GB3149

Mac Lane, Saunders
[Algebra.](#)
New York: Universities Press, 1979. XIX, 626.
512.02/MAC
GB3148

[Go to top](#)

Simon, Barry
[Representations of finite and compact groups.](#)

Hyderabad: Universities Press, 1996. XII, 266.

512.2/SIM

GB3143

Berndt, Bruce C.

[Number theory in the spirit of Ramanujan.](#)

Rhode Island: American Mathematical Society, 2012. XIX, 187.

512.7/BER

GB3144

Dedekind, Richard

[Theory of algebraic functions of one variable.](#)

London: American Mathematical Society, 2012. VIII, 152.

512.73/DED

GB3145

Artin, Emil

[Class field theory.](#)

Providence: AMS Chelsea Publishing, 2012. VII, 192.

512.74/ART

GB3141

Guillemin, Victor

[Differential Forms.](#)

New Jersey: World scientific Publishing, 2019. XVI, 256.

515.37/GUI

GB3136

Conway, John B.

[Course in operator theory.](#)

Rhode Island: American Mathematical Society, 2000. XV, 372.

515.724/CON

GB3152

Ramanan, S.

[Global calculus.](#)

Hyderabad: American Mathematical Society, 2005. XI, 316.

515.94/RAM

GB3140

Potters, Marc

[First course in random matrix theory : for physicists, engineers and data scientists.](#)

Cambridge: Cambridge University Press, 2021. XX, 350.

512.943/POT

27523

Lockhart, Paul

[Arithmetic.](#)

Massachusetts: Harvard University Press, 2017. 223.

513/LOC

27519

Haddad, Wassim M.

[Network information systems : a dynamical systems approach.](#)

Philadelphia: Society for Industrial and Applied Mathematics, 2023. XIV, 622.

515.39/HAD

27526

[Go to top](#)

Kilford, L.J.P
[Modular forms: a classical and computational introduction. - 2 ed.](#)
London: Imperial College Press, 2015. XII, 233.
516.3/KIL
GB3135

Milne, James .S
[Elliptic curve. - 2 ed.](#)
New Jersey: World scientific Publishing, 2020. X, 308.
516.3/MIL
GB3134

Helgason, Sigurdur
[Differential geometry, Lie groups, and symmetric spaces.](#)
Hyderabad: Universities Press, 1978. XXVI, 641.
516.36/HEL
GB3147

Ivey, Thomas A.
[Cartan for beginners : differential geometry via moving frames and exterior differential systems.](#)
Rhode Island: American Mathematical Society, 2012. XIV, 378.
516.36/IVE
GB3142

Michor, Peter W.
[Topics in differential geometry.](#)
Rhode Island: American Mathematical Society, 2012. XI, 494.
516.36/MIC
GB3133

Bean, Michael A
[Probability : the science of uncertainty with applications to investments, insurance, and engineering.](#)
Providence, R.I: American Mathematical Society, 2009. XIII, 448.
519.2/BEA
GB3151

Dobson, Annette J.
[Introduction to generalized linear model. - 4 ed.](#)
Baco Raton: CRC Press, 2018. XV, 376.
519.535/DOB
27453

Carlier, Guillaume
[Classical and modern optimization.](#)
New Jersey: World Scientific Publishing, 2022. XIII, 371.
519.6/CAR
GB3137

530 PHYSICS

Abraham, Ralph.
[Foundations of mechanics. - 2 ed.](#)
Benjamin: American Mathematical Society, 1967. XXIV, 826.
531.01/ABR
GB3150

Gutfreund, Hanoch
[Einsteinian revolution : the historical roots of his breakthrough.](#)
Princeton: Princeton University Press, 2024. XVIII, 249.
530.092/GUT
27511

[Go to top](#)

D'Ariano, Giacomo Mauro

[Quantum theory from first principles : an informational approach.](#)

Cambridge: Cambridge University Press, 2017. XV, 342.

530.12/DAR

27470

Altland, Alexander

[Condensed matter field theory. - 3 ed.](#)

Cambridge: Cambridge University Press, 2023. XII, 812.

530.41/ALT

27477

Bagchi, Biman

[Nonequilibrium statistical mechanics : an introduction with applications.](#)

Boca Raton: CRC Press, 2024. XIII, 453.

531.19/BAG

27492

Grynberg, Gilbert.

[Introduction to quantum optics : from the semi-classical approach to quantized light.](#)

New York: Cambridge University Press, 2010. 665.

535.15/GRY

27464

550 EARTH SCIENCES

Riegel, C. A.

[Fundamentals of atmospheric dynamics and thermodynamics.](#)

Singapore: World Scientific Publishing, 1992. XI, 496.

551.5/RIE

27518

570 LIFE SCIENCES

Carroll, David J._Ed.

[Developmental biology of the sea urchin and other marine invertebrates: methods and protocols. - 2 ed.](#)

New York: Humana Press, 2021. XIII, 309.

571.889/CAR

27479

590 ZOOLOGICAL SCIENCES

Jenni, Lukas

[Biology of moult in birds.](#)

London: Bloomsbury Publishing, 2020. XII, 306.

598.147/JEN

27528

630 AGRICULTURE

Sen, Colleen Taylor

[Feasts and fasts : a history of food in India.](#)

New Delhi: Speaking Tiger, 2016. 349.

641.3009/SEN

27516

[Go to top](#)

Ramesh, Gita
[Ayurvedic wellness cookbook : recipes for balance & rejuvenation.](#)
New Delhi: Lustre Press/Roli Books, 2022. 156.
641.5636/RAM
27507

Iyer, Nandita
[Great Indian thali : seasonal vegetarian wholesomeness.](#)
New Delhi: Lustre Press/ Roli Books, 2022. 191.
641.5954/IYE
27508

700 ARTS

D'Alleva, Anne
[Look! : the fundamentals of art history. - 3 ed.](#)
London: Laurence king publishers, 2020. 184.
701.18/DAL
27490

800 LITERATURE & RHETORIC

Garmus, Bonnie
[Lessons in chemistry.](#)
London: Penguin Books, 2023. 390.
813.6/GAR
27489

Sainath, P.
[Everybody loves a good drought : stories from India's poorest districts.](#)
Gurgaon: Penguin Books, 2017. XIX, 491.
823/SAI
27506

Alter, Stephen_Ed.
[Penguin book of modern Indian short stories.](#)
Gurugram: Penguin Random House India, 2001. XXIV, 351.
823.3/ALT
27502

Desai, Ranjeet
[Roopmahal. - 6 ed.](#)
Pune: Mehta Publication House, 2023. 120.
891.463/DES
27495

Desai, Ranjit
[Bari.](#)
Pune: Mehta Publishing House, 1990. 202.
891.463/DES
27474

Kale, V. P.
[Rang Manache.](#)
Pune: Mehta Publishing House, 1987. 240.
891.463/KAL
27494

[Go to top](#)

Kale, V.P.
[Bai, Bayko, Calendar.](#)
Pune: Mehta Publishing House, 1971. 132.
891.463/KAL
27473

Khandekar, V. S.
[Amrutvel. - 3 ed.](#)
Pune: Mehta Publishing House, 2014. 152.
891.463/KHA
27472

Khandekar, V.S.
[Pahile prem.](#)
Pune: Mehta Publishing House, 2014. 106.
891.463/KHA
27493

Khandekar, V.S.
[Ulka.](#)
Pune: Mehta Publication House, 2024. XXII, 170.
891.463/KHA
27498

Kunte, Jagth
[Narmade har har. - 25 ed.](#)
Pune: Prajakt Prakashan, 2021. 256.
891.463/KUN
27491

Tiruvalluvar
[Tirukkural :Tiruvalluvar a new english version by Gopalkrishna Gandhi.](#)
New Delhi: Aleph Book Company, 2015. XXXIX, 147.
894.8111/TIR
27515

Shanabhag, Vivek
[Ghachar ghocchar.](#)
Gurugram: Harper Perennial, 2015. 117.
894.814/SHA
27462

[Go to top](#)