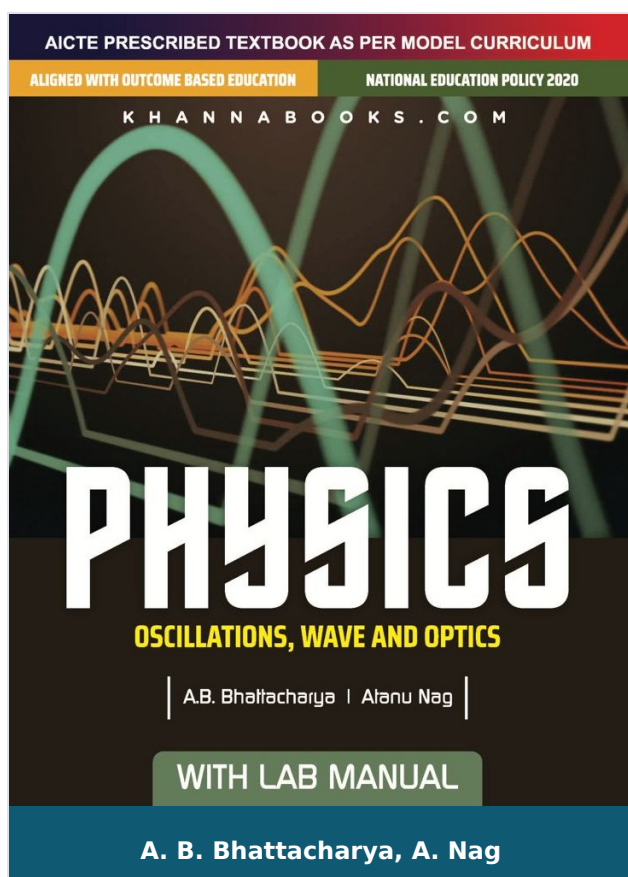




Physics (Oscillations, Waves and Optics) With Lab Manual

Author : A. B. Bhattacharya, A. Nag

ISBN 13 : 978-93-91505-13-4

ISBN 10 : 9391505139

E-ISBN 13 : 978-93-91505-13-4

Edition : 1

Pages : 272

Type of book : Physical

Year : 2025

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 295.00

Categories : [AICTE Prescribed Textbooks,](#)
[English Books, Ebooks](#)

Condition Type : New

Country Origin : India

Product Description

For the implementation of an outcome based education the first requirement is to develop an outcome based curriculum and incorporate an outcome based assessment in the education system. By going through outcome based assessments evaluators will be able to evaluate whether the students have achieved the outlined standard, specific and measurable outcomes. With the proper incorporation of outcome based education there will be a definite commitment to achieve a minimum standard for all learners without giving up at any level. At the end of the Programme running with the aid of outcome based education, a student will be able to arrive at the following outcomes

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- Units 2: Wave Propagation and Dispersion
- The Propagation of Light and Geometric Optics
- Units 4: Wave Optics
- Lasers
- Table of Physical Constants
- Appendices
- Annexures
- Reference for Future learning
- CO and PO Attainments Table
- Index

Author

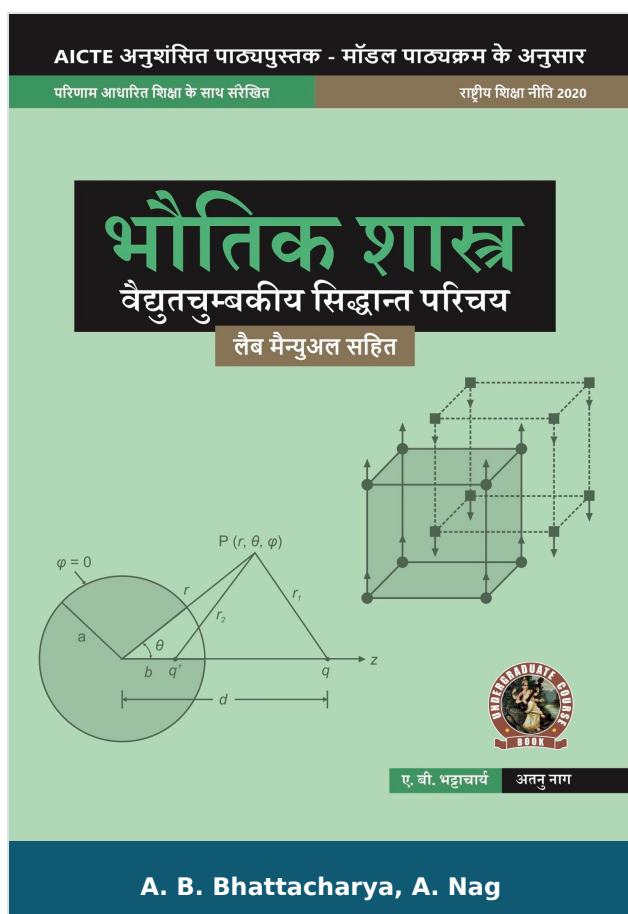
A. B. Bhattacharya

Prof. A. B. Bhattacharya did his MSc and PhD degree from the University of Calcutta in Physics and Post-doc from the Massachusetts Institute of Technology (MIT), Cambridge, USA. He worked in close collaboration with the leading laboratories like Lincoln Laboratory; Milestone Hill Observatory; Earth, Atmospheric and Planetary Sciences division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars

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Physics (Introduction to Electromagnetic Theory) (with Lab Manual)

Author :	A. B. Bhattacharya, A. Nag
ISBN 13 :	978-93-55381-30-9
ISBN 10 :	9355381301
E-ISBN 13 :	978-93-55381-30-9
Edition :	First
Pages :	320
Type of book :	Physical
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 495.00
Categories :	AICTE Prescribed Textbooks, Hindi Books, Book Store, Ebooks
Condition Type :	New
Country Origin :	India

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

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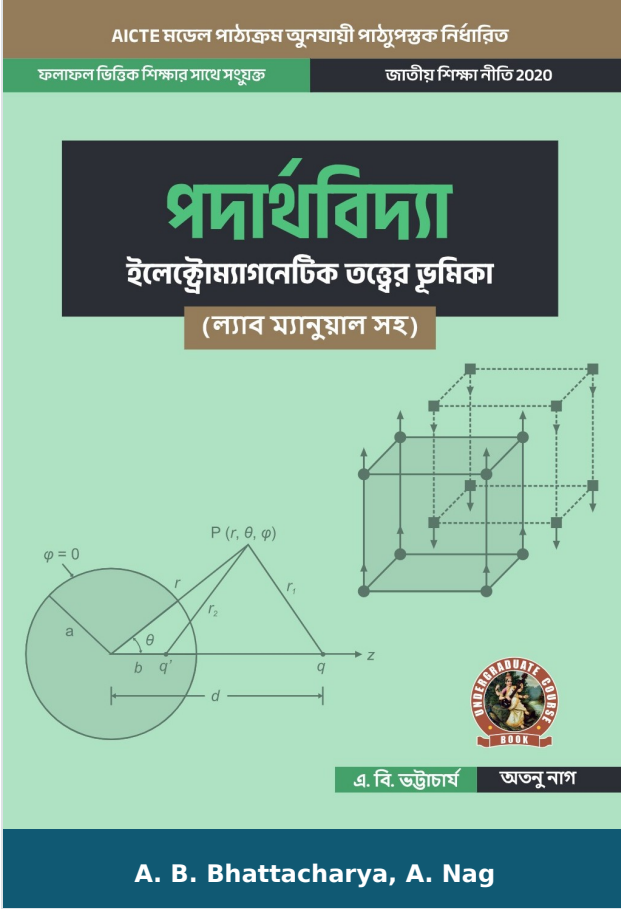
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ISBN 13 : 978-93-55381-11-8

ISBN 10 : 9355381115

E-ISBN 13 : 978-93-55381-11-8

Edition : 1

Pages : 344

Type of book : Physical

Year : 2025

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 515.00

Categories : [AICTE Prescribed Textbooks,](#)
[Bengali Books, Book Store,](#)
[Ebooks](#)

Condition Type : New

Country Origin : India

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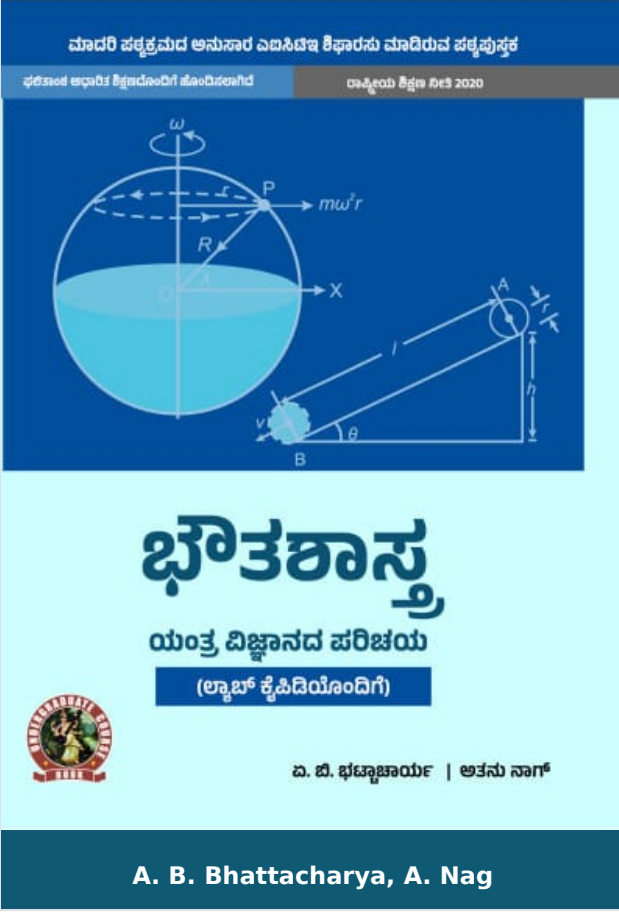
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Physics (Introduction to Mechanics)

Author : A. B. Bhattacharya, A. Nag

ISBN 13 : 978-93-91505-94-3

ISBN 10 : 9391505945

E-ISBN 13 : 978-93-91505-94-3

Edition : 1

Pages : 272

Type of book : Physical

Year : 2023

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 395.00

Categories : [AICTE Prescribed Textbooks,](#)
[Kannada Books, Book Store,](#)
[Ebooks](#)

Condition Type : New

Country Origin : India

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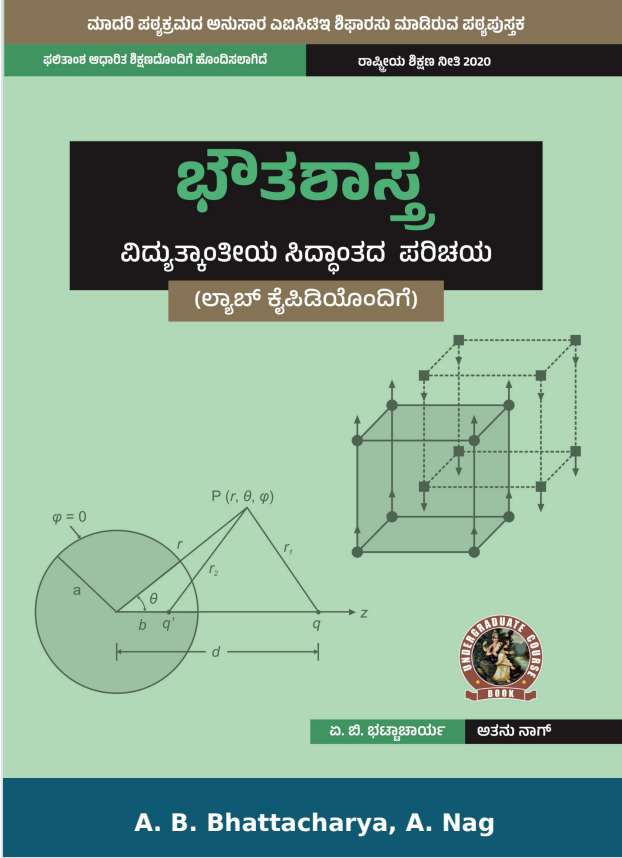
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Physics (Introduction to Electromagnetic Theory) (with Lab Manual)

Author : A. B. Bhattacharya, A. Nag

ISBN 13 : 978-93-91505-86-8

ISBN 10 : 9391505864

E-ISBN 13 : 978-93-91505-86-8

Edition : 1

Pages : 320

Type of book : Physical

Year : 2025

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 395.00

Categories : [AICTE Prescribed Textbooks,](#)
[Kannada Books, Book Store,](#)
[Ebooks](#)

Condition Type : New

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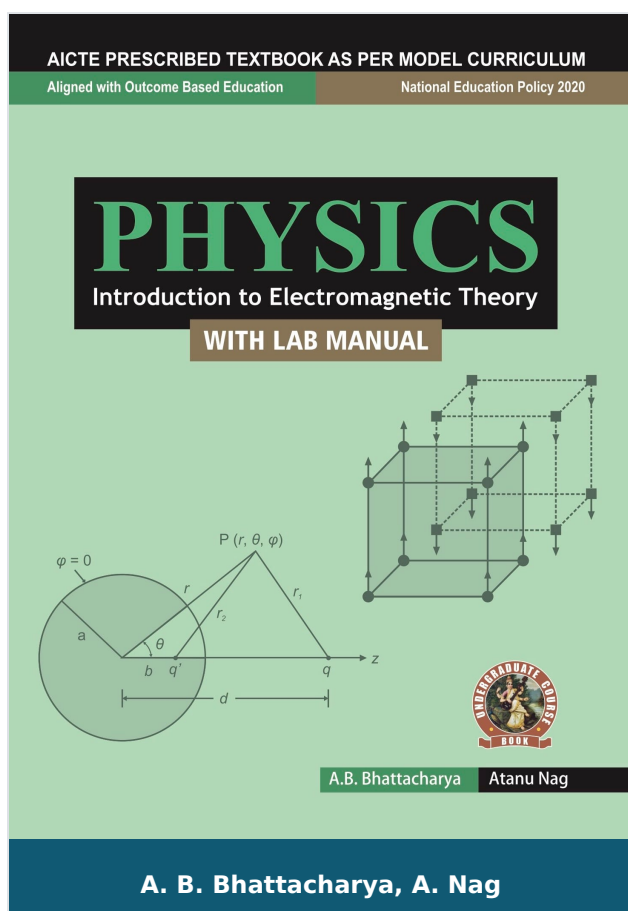
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ISBN 13 : 978-93-91505-16-5

ISBN 10 : 9391505163

E-ISBN 13 : 978-93-91505-16-5

Edition : First

Pages : 308

Type of book : Physical

Year : 2022

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 295.00

Categories : [AICTE Prescribed Textbooks,](#)
[English Books, Book Store,](#)
[Ebooks, Applied Sciences &](#)
[Humanities](#)

Condition Type : New

Country Origin : India

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

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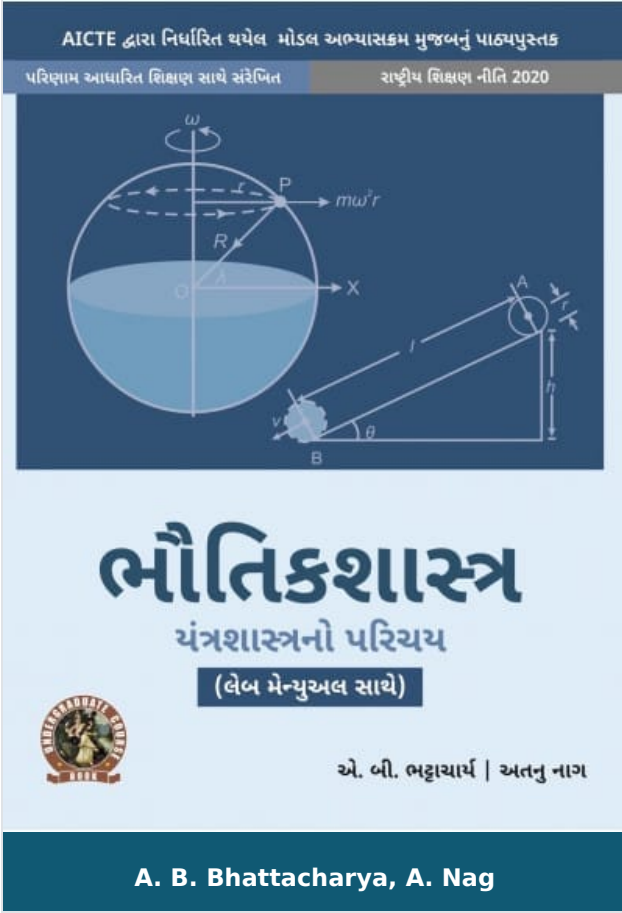
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ISBN 13 : 978-93-55381-66-8

ISBN 10 : 9355381662

E-ISBN 13 : 978-93-55381-66-8

Edition : First

Pages : 244

Type of book : Physical

Year : 2023

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 395.00

Categories : [AICTE Prescribed Textbooks,](#)
[Gujarati Books, Book Store,](#)
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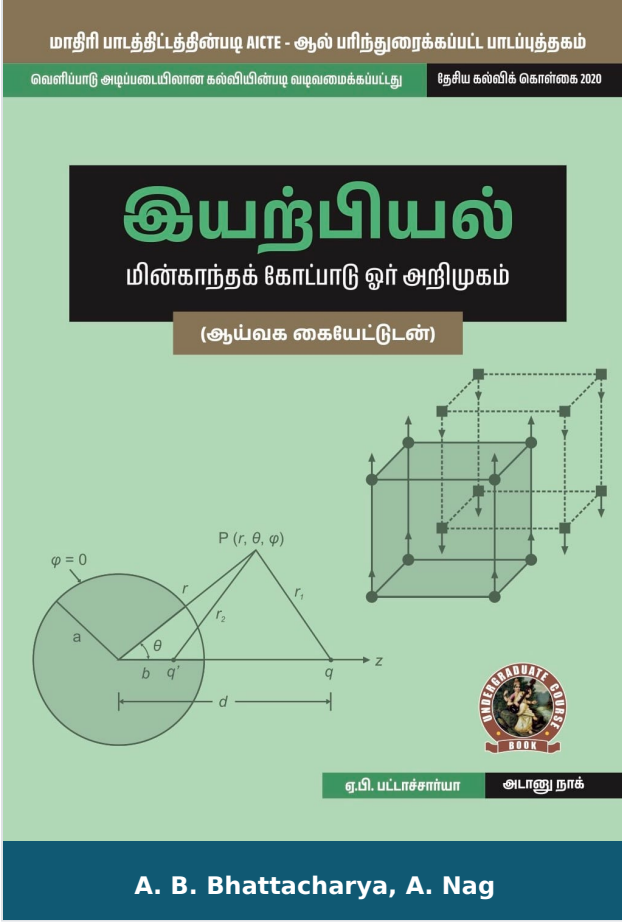
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Author : A. B. Bhattacharya, A. Nag

ISBN 13 : 978-93-91505-75-2

ISBN 10 : 9391505759

E-ISBN 13 : 978-93-91505-75-2

Edition : First

Pages : 344

Type of book : Physical

Year : 2022

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 395.00

Categories : [AICTE Prescribed Textbooks,](#)
[Tamil Books, Book Store, Ebooks](#)

Condition Type : New

Country Origin : India

Product Description

Engineering Physics: Introduction to Electromagnetic Theory has been written for the first year students of B. Tech Engineering Degree Courses of all Indian Universities following the guideline and syllabus as recommended by AICTE. The book, written in a very simple and lucid way, will be very much helpful to reinforce understanding of different aspects to meet the engineering student's needs. Writing a text-cum manual of this category poses several challenges providing enough content without sacrificing the essentials, highlighting the key features, presenting in a novel format and building informative assessment. This book on engineering physics will prepare students to apply the knowledge of Electromagnetic Theory to tackle 21st century and onward engineering challenges and address the related questions.

Some Salient Features of the Book:

- €1. Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject.
2. To develop knowledge on critical questions, solved and supplementary problems covering all types of medium and advanced level problems in a very logical and systematic manner.
3. Some essential information for the users under the heading “know More” for clarifying some basic
4. Information as well as comprehensive synopsis of formulae for a quick revision of the basic principles.
- €5. Constructive manner of presentation so that an Engineering degree students can prepare to work in different sector or in national laboratories at the very forefront of technology.

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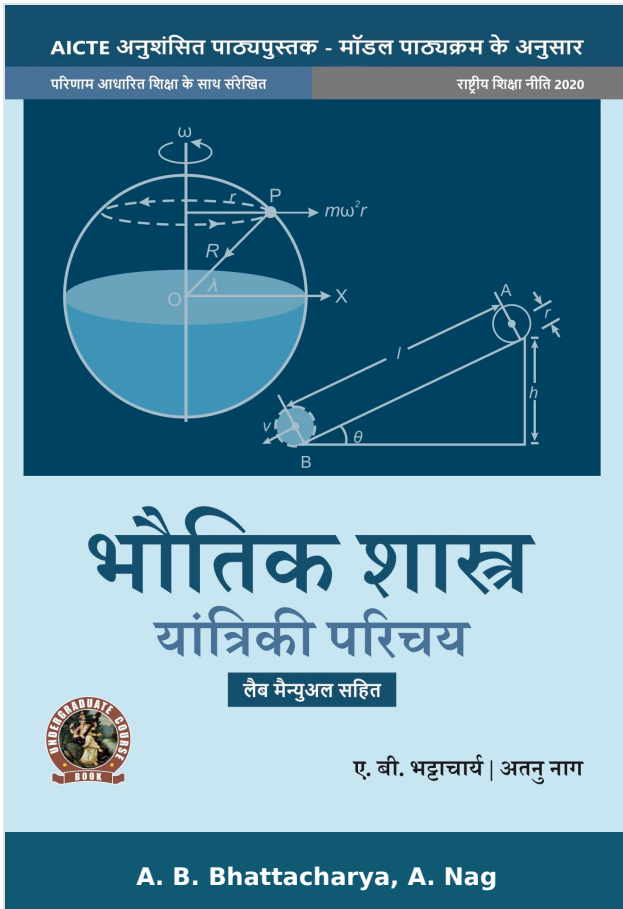
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A. B. Bhattacharya

Prof. A. B. Bhattacharya did his MSc and PhD degree from the University of Calcutta in Physics and Post-doc from the Massachusetts Institute of Technology (MIT), Cambridge, USA. He worked in close collaboration with the leading laboratories like Lincoln Laboratory; Milestone Hill Observatory; Earth, Atmospheric and Planetary Sciences division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness honored him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lightning is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

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Physics (Introduction to Mechanics) (with Lab Manual)

Author :	A. B. Bhattacharya, A. Nag
ISBN 13 :	978-93-55381-33-0
ISBN 10 :	9355381336
E-ISBN 13 :	978-93-55381-33-0
Edition :	First
Pages :	240
Type of book :	Physical
Year :	2023
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 495.00
Categories :	AICTE Prescribed Textbooks, Hindi Books, Book Store, Ebooks
Condition Type :	New
Country Origin :	India

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Physics (Introduction to Mechanics) (with Lab Manual)

Author : A. B. Bhattacharya, A. Nag

ISBN 13 : 978-93-91505-76-9

ISBN 10 : 9391505767

E-ISBN 13 : 978-93-91505-76-9

Edition : First

Pages : 252

Type of book : Physical

Year : 2022

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 395.00

Categories : [AICTE Prescribed Textbooks,](#)
[Tamil Books, Book Store, Ebooks](#)

Condition Type : New

Country Origin : India

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- € €2. To develop knowledge on critical questions solved and supplementary problems covering all type of medium and advanced level
- € €3. Under problems in a very logical and systematic manner.
- € €4. Some essential information for the user the heading "Know more" for clarifying some basic information as well as comprehensive synopsis of formulae for a quick revision of the basic principles.
- € €5. Constructive manner of presentation so that an Engineering degree students can prepare to work in different sectors or in national laboratories at the very forefront of technology.

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- CO and PO Attainment Table
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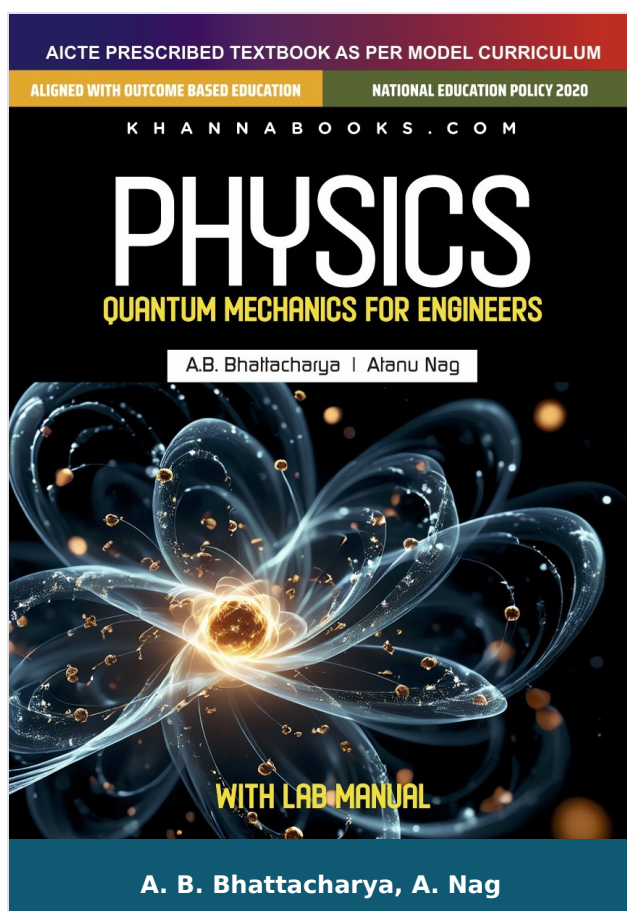
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Physics (Quantum Mechanics for Engineers) With Lab Manual

Author : A. B. Bhattacharya, A. Nag

ISBN 13 : 978-93-91505-25-7

ISBN 10 : 9391505252

E-ISBN 13 : 978-93-91505-25-7

Edition : 1

Pages : 240

Type of book : Physical

Year : 2025

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 295.00

Categories : [AICTE Prescribed Textbooks,](#)
[English Books, Ebooks](#)

Condition Type : New

Country Origin : India

Product Description

For the implementation of an outcome based education the first requirement is to develop an outcome based curriculum and incorporate an outcome based assessment in the education system. By going through outcome based assessments evaluators will be able to evaluate whether the students have achieved the outlined standard, specific and measurable outcomes. With the proper incorporation of outcome based education there will be a definite commitment to achieve a minimum standard for all learners without giving up at any level. At the end of the Programme running with the aid of outcome based education, a student will be able to arrive at the following outcomes:

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- Mathematical Preliminaries for quantum mechanics
- Applications of Schrodinger equation
- Introduction to Molecular Bonding
- Introduction to Solids
- Appendices
- Annexures
- References for Further learning
- CO and PO Attainment Table

Author

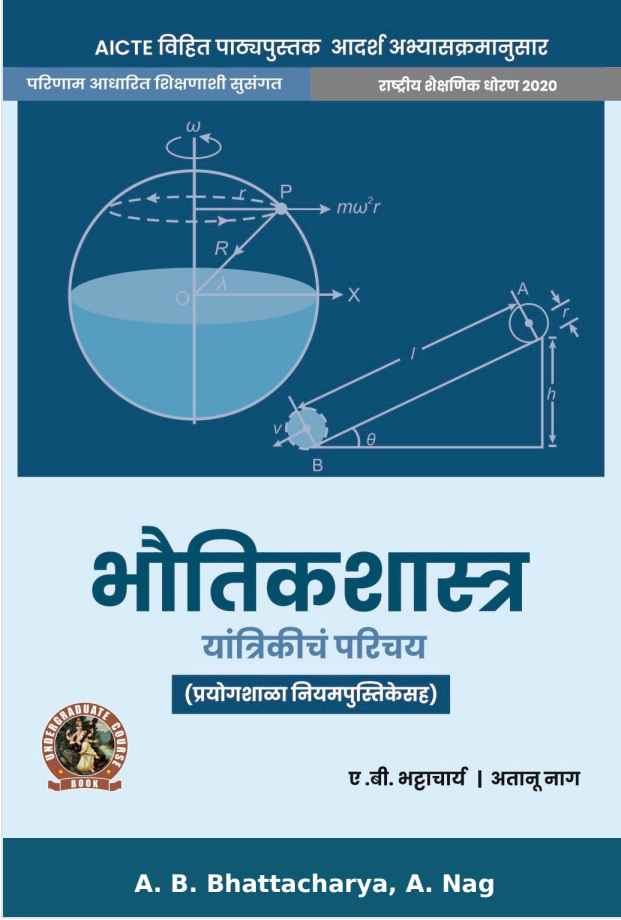
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Physics (Introduction Mechanics)

Author : A. B. Bhattacharya, A. Nag

ISBN 13 : 978-93-55380-30-2

ISBN 10 : 9355380305

E-ISBN 13 : 978-93-55380-30-2

Edition : First

Pages : 228

Type of book : Physical

Year : 2022

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 395.00

Categories : [AICTE Prescribed Textbooks,](#)
[Marathi Books, Book Store,](#)
[Ebooks](#)

Condition Type : New

Country Origin : India

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