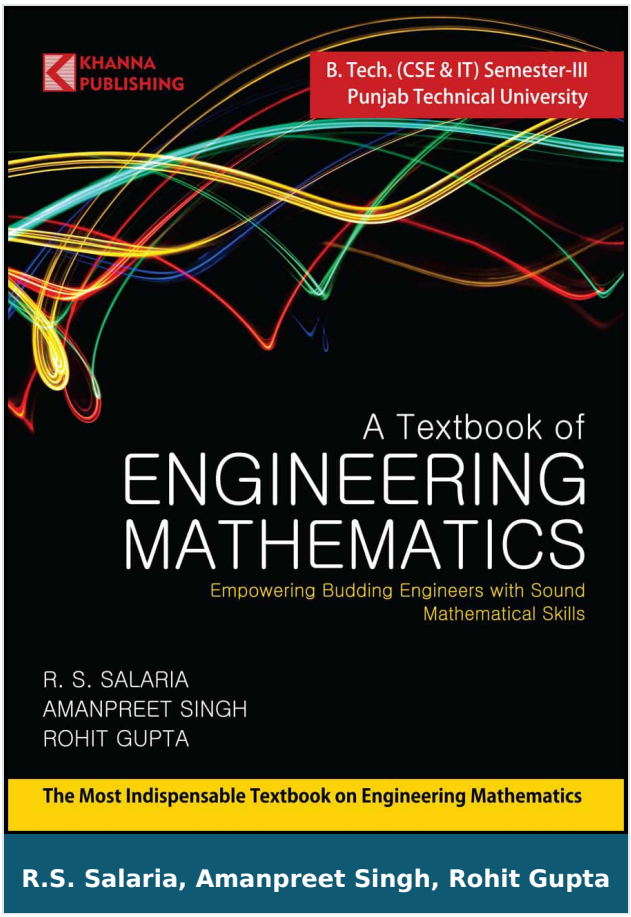


A Textbook of Engineering Mathematics

Author :	R.S. Salaria, Amanpreet Singh, Rohit Gupta
ISBN 13 :	978-93-82609-99-5
ISBN 10 :	9382609997
E-ISBN 13 :	978-93-82609-99-5
Edition :	1
Pages :	430
Type of book :	Physical
Year :	2016
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	APPPLIED SCIENCES & HUMANITIES, Book Store, APPPLIED SCIENCES & HUMANITIES
Condition Type :	New
Country Origin :	India

Khanna Publishing House
4C/4344, Ansari Road, Daryaganj, New Delhi-110002
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The book in your hand is a first step of our commitment to uplift the standard of teaching and learning of Mathematics. We assure you that in our continuous journey in this endeavor and with your wholehearted support. We hope to make significant contribution in the teaching and learning of Mathematics. We hope to see that day when we hear from our students that Mathematics is a wonderful subject and you all are relishing it.

This book is designed to serve as a textbook for the students of B. Tech.(CSE & IT) Semester-III of Punjab Technical University, Jalandhar.

While writing, Due care is taken to present the subject matter in a simple and illustrative manner so that a reader can grasp it with quite ease and can built basic and conceptual knowledge in the subject.

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- Functions of Complex Variables
- Linear Systems and Eigen-Values
- Numerical Solution of Ordinary Differential Equations
- Probability Distributions
- Sampling Distribution and Testing of Hypothesis

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Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living. </p

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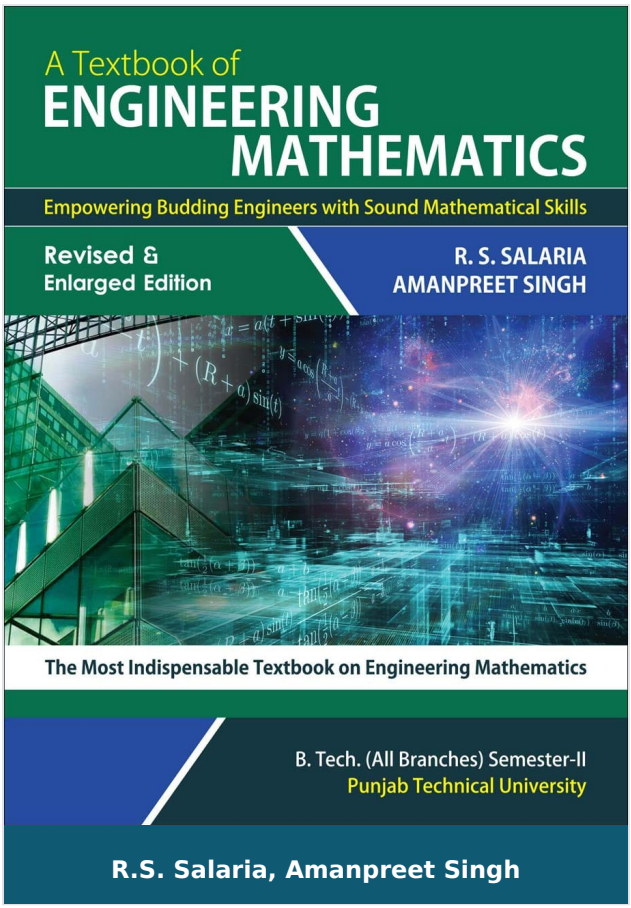
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A Textbook of Engineering Mathematics (PTU-II)

Author :	R.S. Salaria, Amanpreet Singh
ISBN 13 :	978-93-82609-91-9
ISBN 10 :	9382609911
E-ISBN 13 :	978-93-82609-91-9
Edition :	1
Pages :	556
Type of book :	Physical
Year :	2016
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 350.00
Categories :	APPPLIED SCIENCES & HUMANITIES, Book Store, APPPLIED SCIENCES & HUMANITIES
Condition Type :	New
Country Origin :	India

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- Applications of Differential Equations
- Linear Algebra
- Infinite Series
- Complex Numbers

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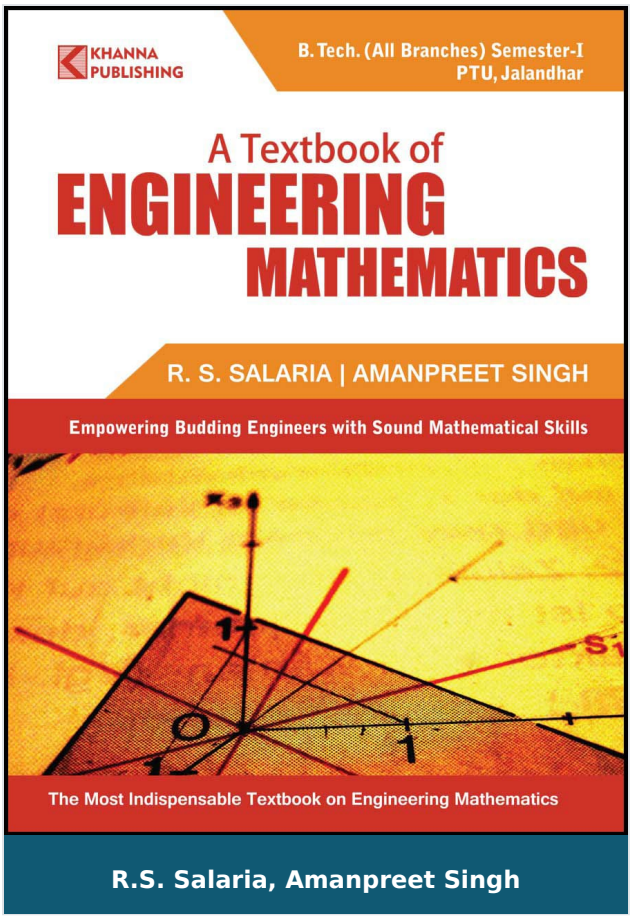
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Author :	R.S. Salaria, Amanpreet Singh
ISBN 13 :	978-93-82609-98-8
ISBN 10 :	9382609989
E-ISBN 13 :	978-93-82609-98-8
Edition :	1
Pages :	518
Type of book :	Physical
Year :	2016
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 350.00
Categories :	APPPLIED SCIENCES & HUMANITIES, Book Store, APPPLIED SCIENCES & HUMANITIES
Condition Type :	New
Country Origin :	India

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- Applications of Partial Differentiation
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- Introduction to Three Dimensional Geometry
- Multiple Integrals
- Vector Calculus
- Applications of Vector Calculus

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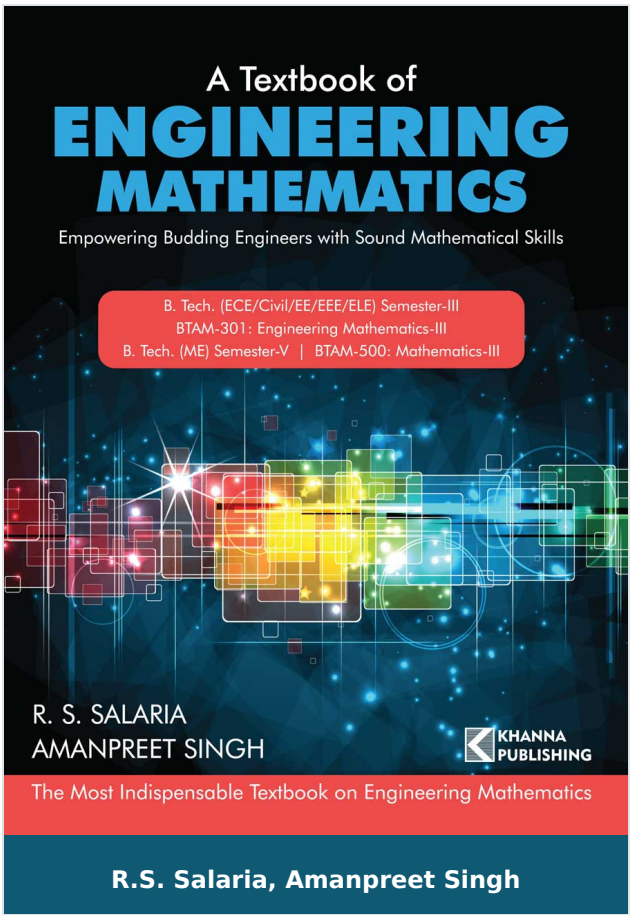
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A Textbook of Engineering Mathematics-III (ECE/Civil/EE/EEE/ELE)

Author :	R.S. Salaria, Amanpreet Singh
ISBN 13 :	978-93-82609-89-6
ISBN 10 :	938260989X
E-ISBN 13 :	978-93-82609-89-6
Edition :	1
Pages :	520
Type of book :	Physical
Year :	2016
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 350.00
Categories :	APPPLIED SCIENCES & HUMANITIES, Book Store, APPPLIED SCIENCES & HUMANITIES
Condition Type :	New
Country Origin :	India

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