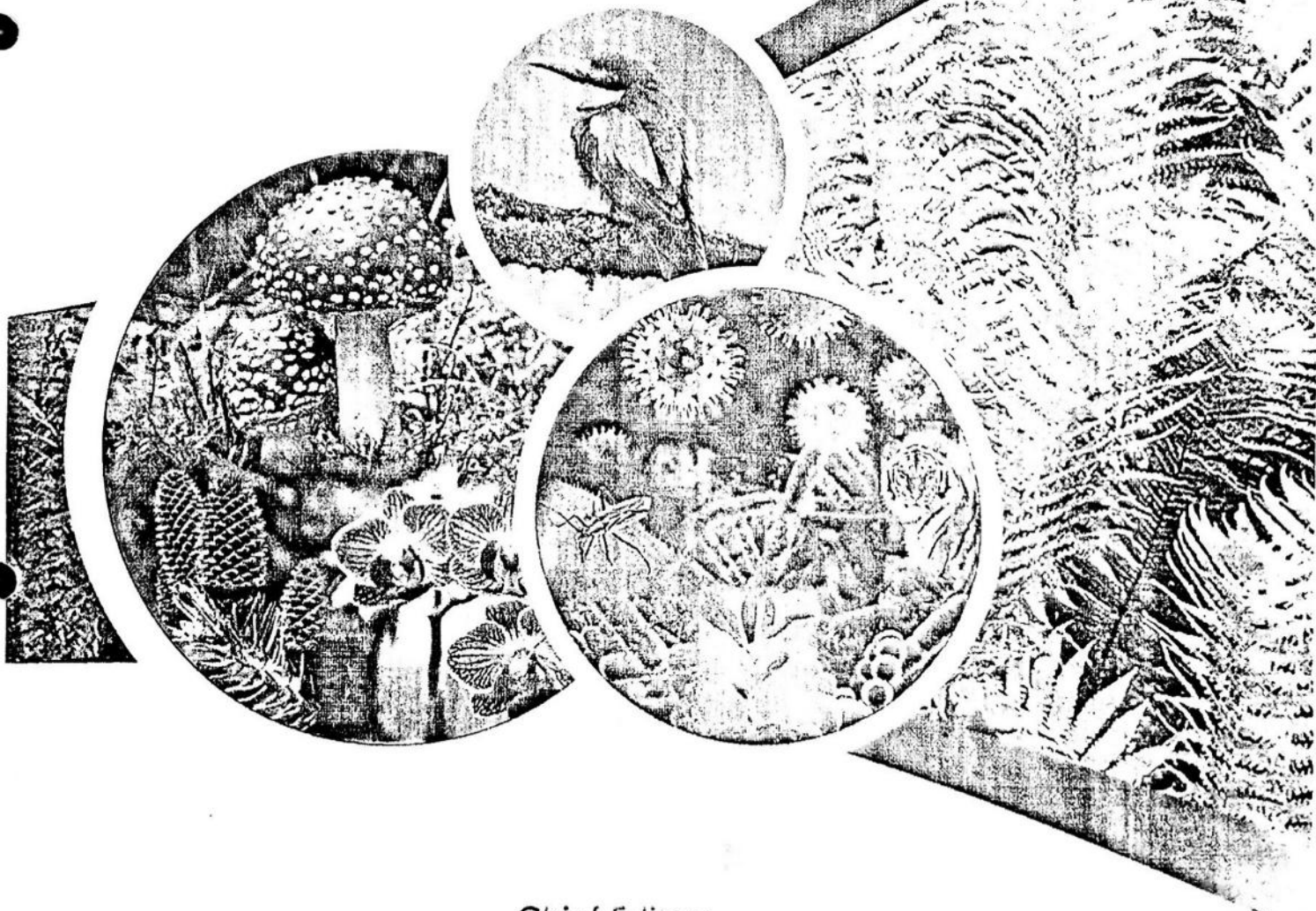


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Printed by:
Ganraya Graphis,
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ISBN: 978-81-923621-82

Published by:
Pandit Jawaharlal Nehru Study Center,
Shri Shivaji College of Arts, Commerce and Science, Akola (MS) India
A National Publication

Printed in India

A MULTIFUNCTIONAL BIOMATERIAL: SPIDER SILK

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ABSTRACT:

Researchers are always looking for new materials that are stronger as well as comfortable than materials currently in use and trying to develop the better one. Spider silk is nature's high performance fiber that outperforms the best man-made materials by displaying extraordinary mechanical properties. Man often takes pride in our ability to create materials that are superior to ones created by nature. Yet some of the materials that nature creates out form everything designed by the human mind. Spider silk is one of them. Due to its superior qualities, spider silk has wide range of opportunities for medical, defense as well as in industrial sector. I reviewed the nature and outstanding properties of spider silk and applications of spider silk in various fields. Successful large scale production of recombinant spider silk protein with inexpensive bioreactors and development of a proper spinning methodology to produce synthetic spider silks will open a new gate in various sectors.

Keywords: Spider silk, Biopolymer, Silk production.

Introduction:

Spider is a wonderful tiny arachnid which adds beauty to nature. Spider communities dominate the world's tropical, subtropical and almost all conceivable habitats surviving. According to World Spider Catalog (2020), 48927 valid spider species from 4189 genera are known from the world. Spiders are the preeminent silk craftsmen among arthropods and are best known for producing webs which is their beautiful and impressive house. Spider shows unique ability to produce silken threads of various kinds throughout their life span. Spiders depends on their silk for variety of life activities and functions, such as- shelter, prey capture, storing food, as a food, dispersal, guideline, safety lines, retreat, reproduction, formation of egg sac,

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Edition : First, 28th February 2021

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Civil Lines, Akola-444001,
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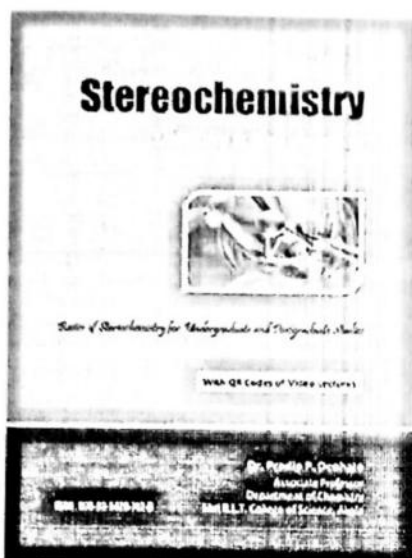
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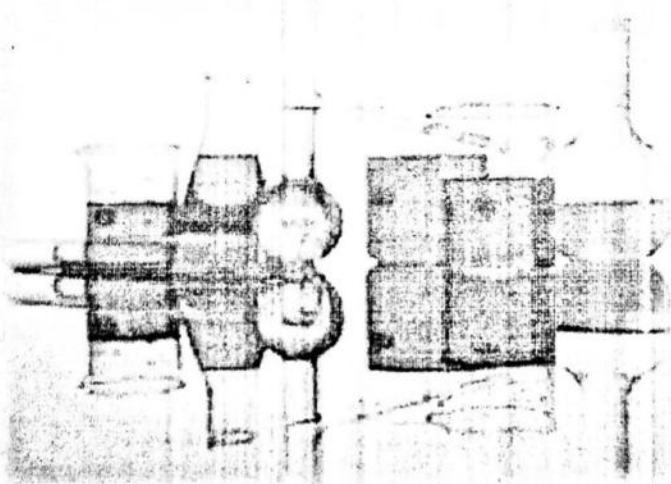
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Department of Chemistry,

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Civil Lines, Akola-444001,

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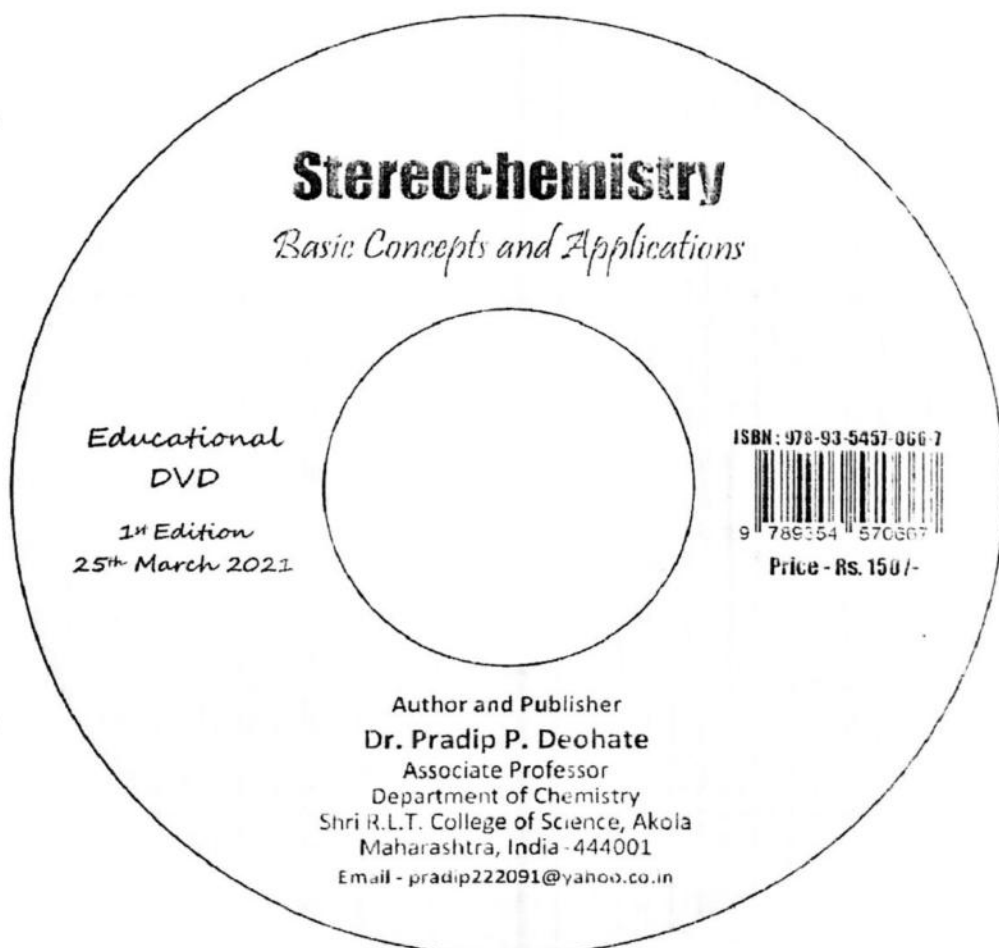
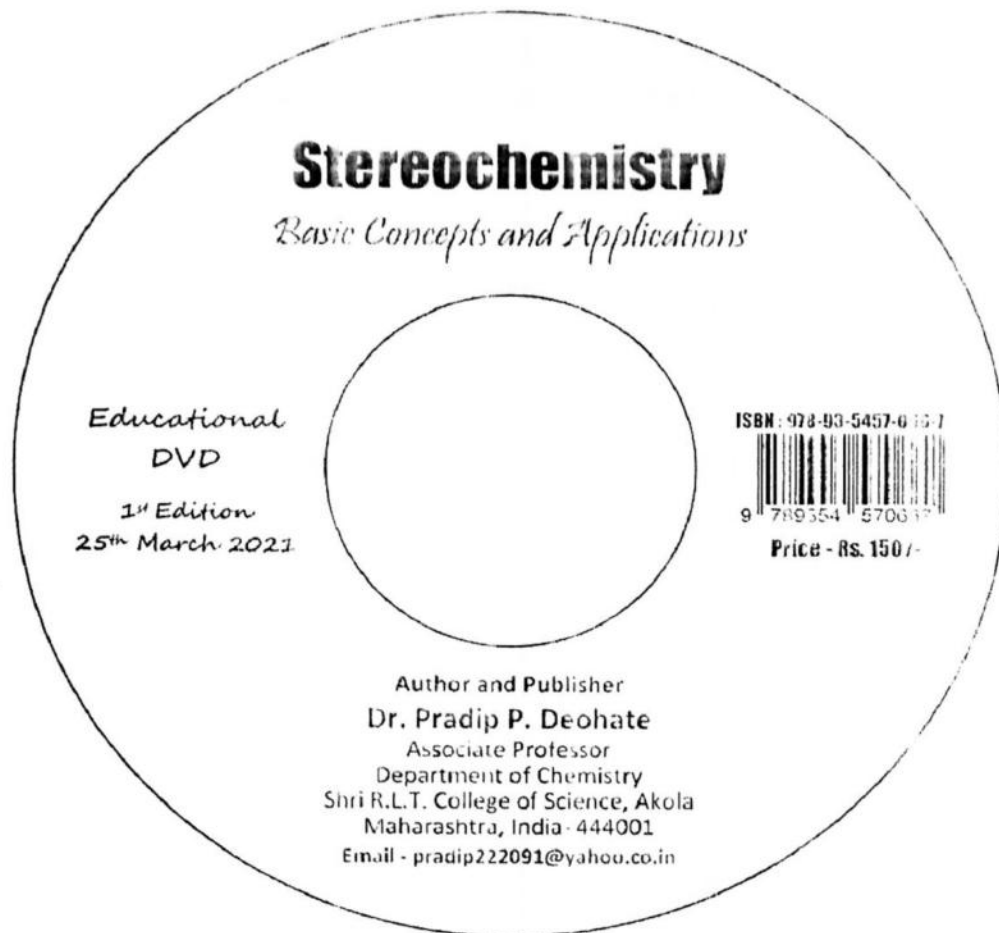
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Printer: **Ajay Printer**

Near Shivaji College of Arts, Comm. And Science,
Akola

Edition: First, 21st August 2021

ISBN: **978-93-5457-896-0**

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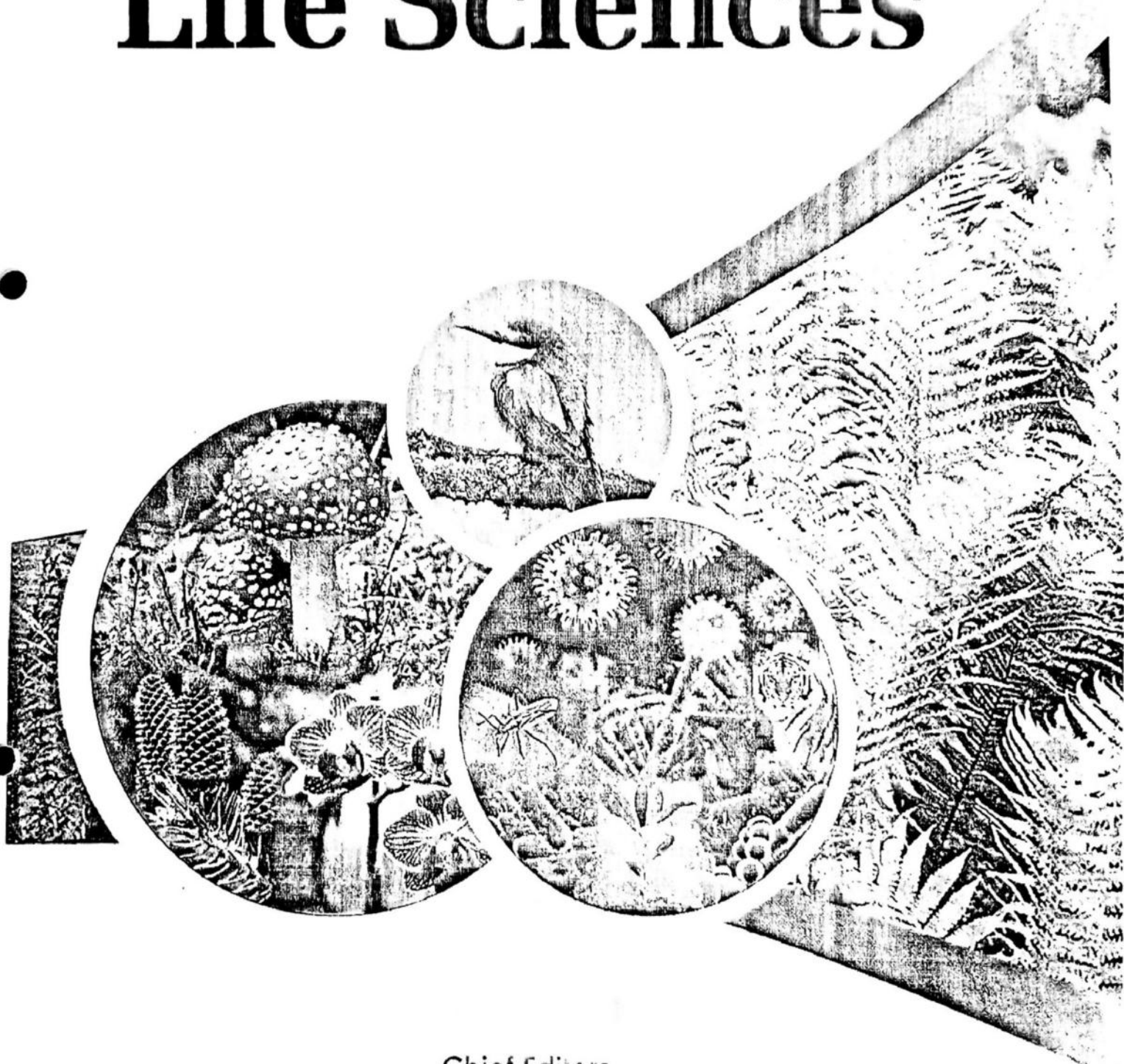
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A NOTE ON BIODIVERSITY OF WEEDS FROM AKOLA DISTRICT (MS)

P. M. Khadse

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ABSTRACT:

The term biodiversity is the shortform of Biological diversity . It can be defined as “ The variability among living organisms from all types of habitats on the earth” and weeds are the plants which grow where they are not wanted. However there are several other definitions of weeds as plants out of place (Dayton 1948). The present paper deals with the study of some of the weeds from Akola District. The present survey shows that there are about 135 prominent weeds belonging to 25 different families of which some are given here. This paper includes Botanical name, common name in Marathi, Family name of some of the weeds authenticated by using various floras like Flora of Marathwada Vol I & II, Flora of presidency of Bombay, Flora of presidency of Madras, Compendium of Indian weed science Research etc.

Key words: Biodiversity, Weed plants, Flora

Introduction:

Akola District is one of the District from Vidarbha region of Maharashtra state. It is bounded on North by Washim District, on the east by Buldana and on west by Amravati District. It is least urbanised district of Maharashtra most of the peoples are self employed in agriculture and forestry as black cotton soil present in most of the area of the District . The major crops are cotton, Wheat, Jawar, groundnut, Soya bean etc .

The current paper deals with the study of weed plants from Akola District. During this survey work in 2018-19 it is noticed that there are lots of weeds growing in and surrounding the fields affecting the quality and quantity of the yield. There are about 135 weeds are commonly present in the District belonging to 25 different families of the monocot and dicot plants of which some are listed here in table no.1. The weed samples were collected identified with the help of Floras and deposited in the departmental herbarium of Dept. of Botany Shri. R. L. T. College of Science, Akola (MS) for ready reference.

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The edition published in 1 May, 2021

ISBN 13 : 978-81-952191-8-6

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ISO 9001 : 2015



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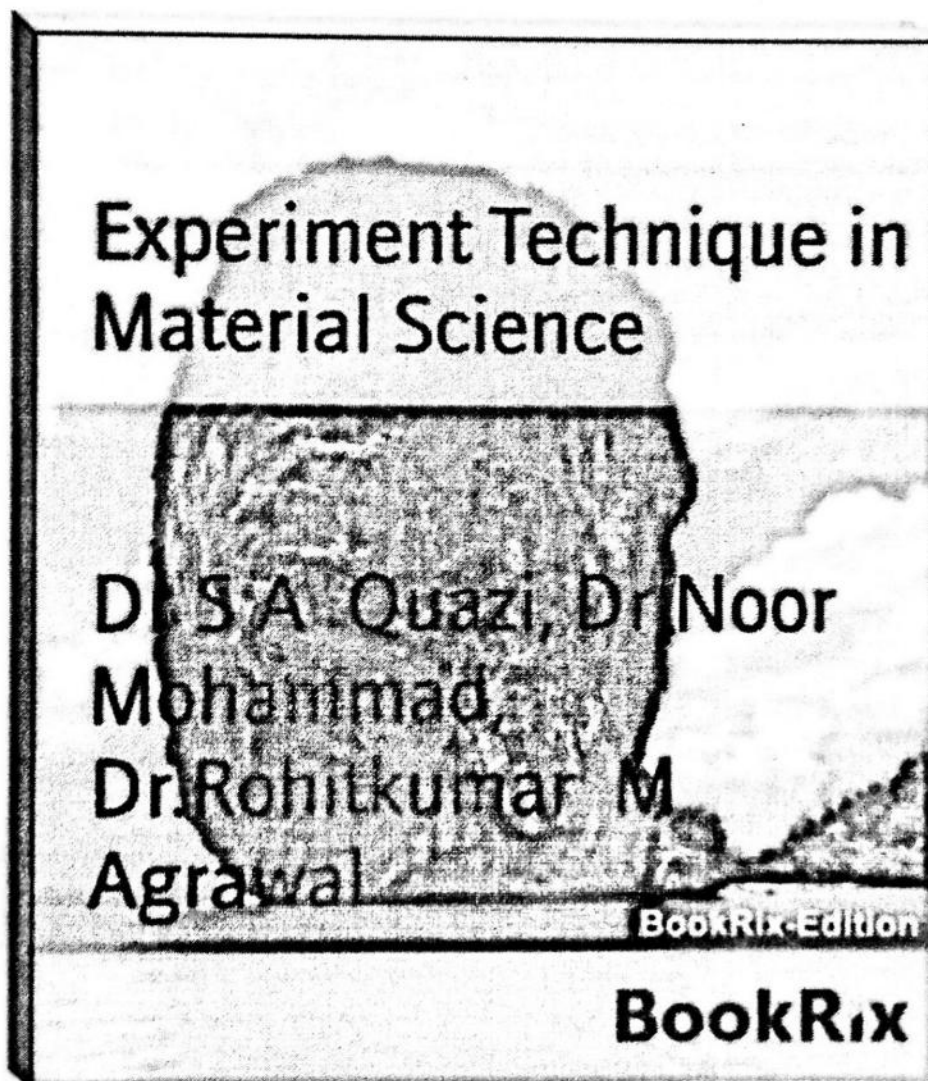
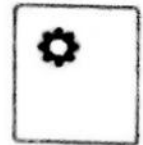
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ACKNOWLEDGEMENT

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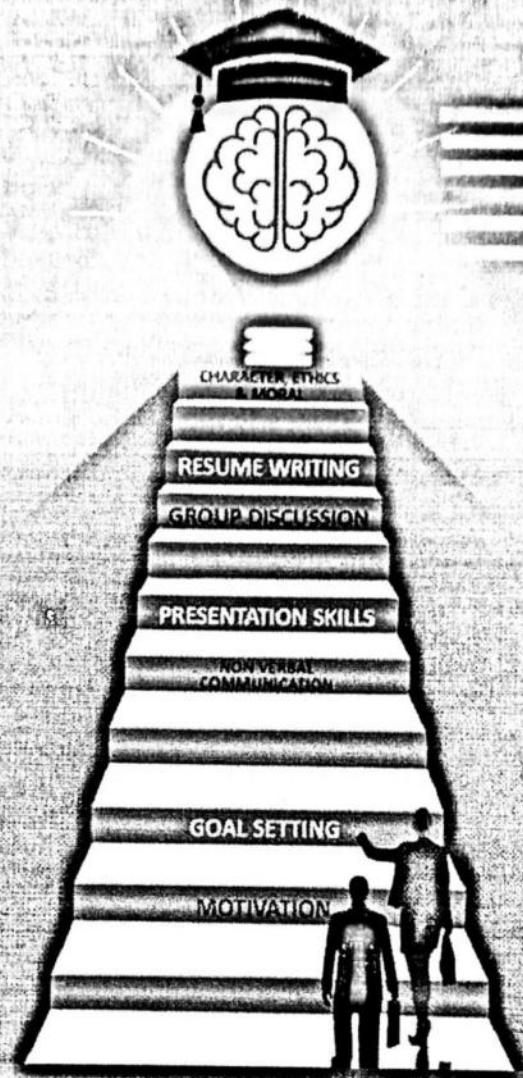
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