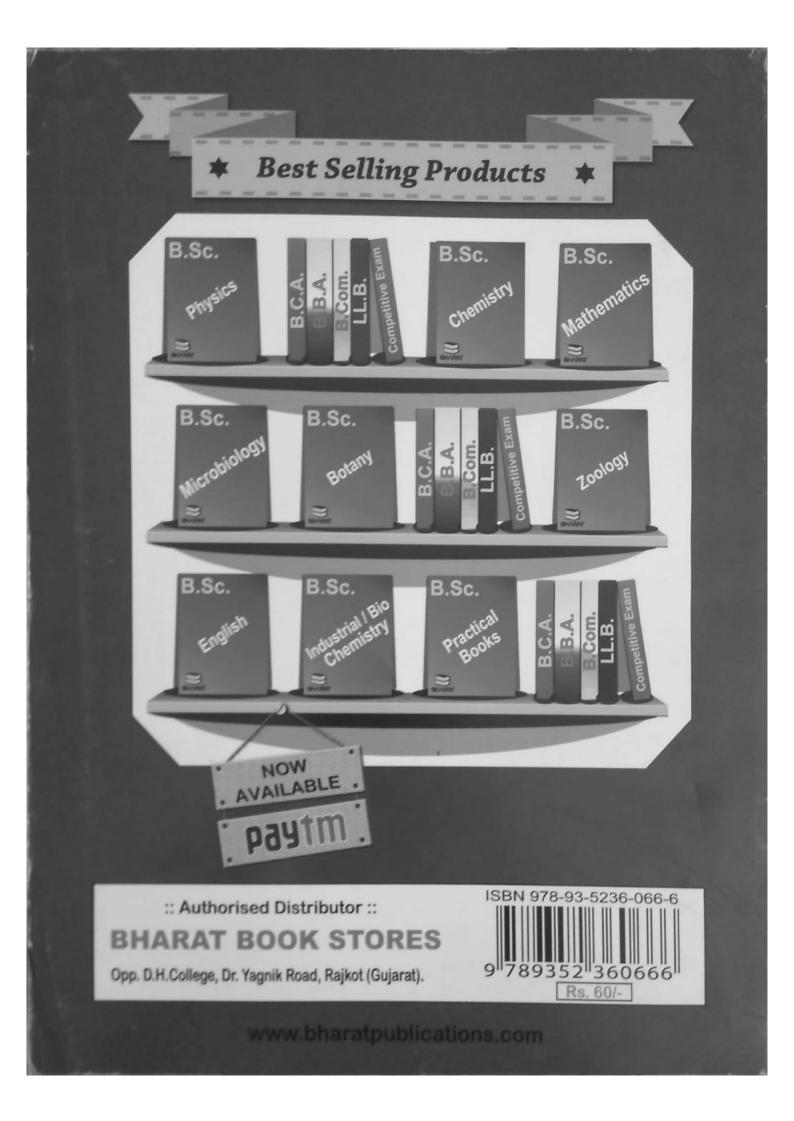
# ESSENTIAL CHEMISTRY PRACTICAL - 2

CHEMISTRY LAB

E A EXT



## ESSENTIAL CHEMISTRY PRACTICAL - 2

### B.Sc. Sem. - 2

(Saurashtra University)

### D. M. Vora

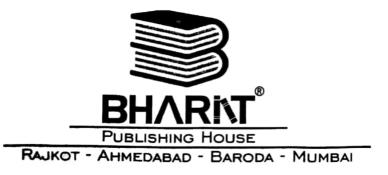
Assistant Professor, Department of Chemistry M. P. Shah Arts & Science College, Surendranagar.

### Dr. C. R. Fultariya

Assistant Professor, Department of Chemistry M. P. Shah Arts & Science College, Surendranagar.

#### Dr. J. P. Harsora

Assistant Professor, Department of Chemistry M. P. Shah Arts & Science College, Surendranagar.



### Subject : Essential Chemistry Practical - 2

(For B.Sc. Sem. - 2)

### ISBN No. : 978-93-5236-066-6

### 1<sup>st</sup> Edition : 2016

### Published by :

Bharat & Company, Dr. Yagnik Road, Rajkot - 360 001 Contect : 0281 - 2482601 / 90990 27279

### Graphics By :

Sunshine Designing,

Rajkot.

### © All rights are reserved by the publisher.

This book is in copyright. Subject to statutory exception and to the provision of relevant collective licensing agreements, no reproduction of any part may take place without the written permission of Publisher.

### Price : ₹ 60/-

### Authorised Dealer : Bharat Book Stores, Opp. D. H. College, Dr. Yagnik Road, Rajkot.

Printed at : Bharat Offset, Ahmedabad.

Nirav

According to the New Syllabus in Force from June - 2016 of the Saurashtra University and Bhakta Kavi Narsinh Mehta University Useful for F. Y. B. Sc. Students

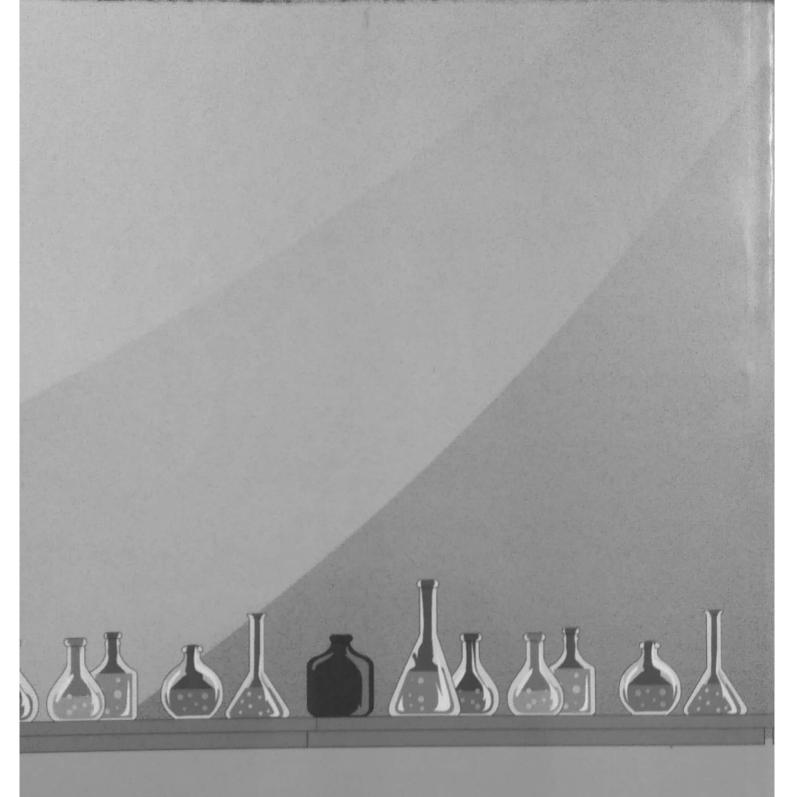
### Semester : I - II C - 102 / C - 202 CHEMISTRY Practicals

Authors : Dr.Jalpa P. Harsora Dr.Chirag R. fultariya

First Edition : 2016 - 17



NIRAV<sup>®</sup> PRAKASHAN







29, Kalyan Bhavan, Near Havmor Restaurant, Relief Road, Ahmedabad – 1 Phone : (079) 25352172, 25323659, 25353320, 25353572 E-mail : info@niravprakashan.com According to the New Syllabus in Effective from June - 2016 of the Saurashtra University and Bhakta Kavi Narsinh Mehta University Useful for F. Y. B. Sc. Semester - I and II Students

### C-102/C-202 CHEMISTRY Practicals

### Semester : I, II

First Edition : 2016 - 17

Suctimon Copy: For Becommendation

₹ 100/-

### AUTHORS

NIRAV PRAKASHAN, Ahmedabad Ph.: (079) 25352172 / 25323659

Dr. Jalpa P. Harsora

Assistant Professor Chemistry Department Shree M. P. Shah Arts & Science College, Surendranagar

### Dr. Chirag R. Fultariya

Assistant Professor Chemistry Department Shree M. P. Shah Arts & Science College, Surendranagar



### PUBLISHER

Nirav P. Shah



29, Kalyan Bhavan, Nr. Havmor Restaurant, Relief Road, Ahmedabad-1. Phone No. : (079) 25352172, 25323659, 25353320, 25353572 E-mail : info@niravprakashan.com

₹100/-

### ISBN: 978-93-85103-89-6

### ALL RIGHTS RESERVED

No Part of this book can be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the Authors.

### DISCLAIMER

Every care has been taken by the compilers and publishers to give correct, complete and updated information. In case there is any omission, printing mistake or any other error which might have crept in inadvertently, neither the compiler/Publisher nor any of the distributors take any legal responsibility. In case of any dispute, all matters are subjected to the exclusive jurisdiction of the courts in Ahmedabad Only.

### GRAPHICS Navrang Graphics

City Mill Ni Chali, Opp. Diwan Ballubhai School, Kankariya Road, Ahmedabad.



Date : 31-08 -2018

To whom it may concern,

We are pleased to announcepublication of our book entitle "Practicals Chemistry" is authored by Dr. Jalpa Prafulbhai Harsora & Dr. Chirag Rameshbhai Fultariya, Published by Nirav Prakashan, Ahmedabad. (State Level Publisher) during Academic Year 2016-17. This book is written in accordance with the syllabus of Saurashtra University, Rajkot and Bhakt Kavi Narsinh Mehta University, Junagadh.

Details of the book are as under.

Sr.	Name of author	Authorship	Title of Book	ISBN No.
No.	a de la construcción de			
1.	Dr. Jalpa P. Harsora	First Author	Practicals	
2.	Dr. Chirag R. Fultariya	Second Author	Chemistry	978-93-85103-89-6

1. ISBN Certificate from Raja Rammohun Roy National Agency for ISBN

For

Nirav Prakashan

Ahmedabad

FOR, NIRAV PRAKASHAN 3112

29, Kalyan Bhavan, Nr. Havmor Restaurant, Relief Road, Ahmedabad - 380 001. Phone : (O) : 25352172, 25323659, 25353320, 25353572. E-mail : info@niravprakashan.com

### ~ EDUCATIONALPUBLISHERS ~



### This book is written for the entry level chemistry students. It is most important that students understand the basics behind every experiment they perform to excel in future. This book mainly focus on Inorganic qualitative analysis but it also contains ample information of safety and glasswares used in a laboratory. Safety is a major concern when we are dealing with a chemical. It is necessary to have some common information principles and practical methods in possible simple way to identify single inorganic compound using Inorganic Qualitative Analysis method. Inorganic Chemistry deals with the chemistry of metals and especially transition metals. This book contains brief detail of the theory behind those important tests which is involved in these experiments. It also contains sequential method to identify unknown compounds in laboratory.

# Chemistry Practical Series: Inorganic Chemistry - I

Chirag Fultariya



Dr. Chirag Fultariya is working as Assistant Professor (GES Class-II, Gazetted) in Shree M. P. Shah Arts & Science College at Surendranagar. He has worked with multinational pharmaceutical compnies like Zydus pharmaceuticals & Unique Pharmaceuticals Ltd. as ADL scientist. He has analytical background and excellent command over laboratory analysis.



#### Impressum / Imprint

Bibliografische Information der Deutschen Nationalbibliothek: Die Deutsche Nationalbibliothek verzeichnet diese Publikation in der Deutschen Nationalbibliografie; detaillierte bibliografische Daten sind im Internet über http://dnb.d-nb.de abrufbar.

Alle in diesem Buch genannten Marken und Produktnamen unterliegen warenzeichen-, marken- oder patentrechtlichem Schutz bzw. sind Warenzeichen oder eingetragene Warenzeichen der jeweiligen Inhaber. Die Wiedergabe von Marken, Produktnamen, Gebrauchsnamen, Handelsnamen, Warenbezeichnungen u.s.w. in diesem Werk berechtigt auch ohne besondere Kennzeichnung nicht zu der Annahme, dass solche Namen im Sinne der Warenzeichen- und Markenschutzgesetzgebung als frei zu betrachten wären und daher von jedermann benutzt werden dürften.

Bibliographic information published by the Deutsche Nationalbibliothek: The Deutsche Nationalbibliothek lists this publication in the Deutsche Nationalbibliografie; detailed bibliographic data are available in the Internet at http://dnb.d-nb.de.

Any brand names and product names mentioned in this book are subject to trademark, brand or patent protection and are trademarks or registered trademarks of their respective holders. The use of brand names, product names, common names, trade names, product descriptions etc. even without a particular marking in this work is in no way to be construed to mean that such names may be regarded as unrestricted in respect of trademark and brand protection legislation and could thus be used by anyone.

Coverbild / Cover image: www.ingimage.com

Verlag / Publisher: LAP LAMBERT Academic Publishing ist ein Imprint der / is a trademark of OmniScriptum GmbH & Co. KG Bahnhofstraße 28, 66111 Saarbrücken, Deutschland / Germany Email: info@omniscriptum.com

Herstellung: siehe letzte Seite / Printed at: see last page ISBN: 978-3-330-05303-8

Copyright © Chirag Fultariya Copyright © 2017 OmniScriptum GmbH & Co. KG Alle Rechte vorbehalten. / All rights reserved. Saarbrücken 2017



OmniScriptum GmbH & Co. KG Bahnhofstr. 28 | D-66111 Saarbrücken

OmniScriptum GmbH & Co. KG Bahnhofstraße 28 D-66111 Saarbrücken

Fax: +49 681 93 81 567-9

info@omniscriptum.com www.omniscriptum.com

To Whom it may concern,

We are pleased to announce publication of the book entitled **"Chemistry Practical Series: Inorganic Chemistry** - **I**", authored by 'Chirag Fultariya'.

The book was released by LAP LAMBERT Academic Publishing in 2017 and bears ISBN 978-3-330-05303-8.

Being an imprint of OmniScriptum GmbH & Co. KG, LAP LAMBERT Academic Publishing provides high-quality publications, with all advantages of an international company in marketing, production and distribution. Books of LAP are therefore available on the worldwide market via more than 80,000 bookstores and 3,000 online stores.

OmniScriptum is an associate member of the American Booksellers Association, the Booksellers Association of the UK, a member of the Börsenverein des Deutschen Buchhandels, and also a member of the German PEN Center.

Please do not hesitate to contact us, should you need any further information.

Sincerely,

N.C. Callour

Christine Cateaux

Supervisor

OmniScriptum GmbH & Co. KG • Handelsregister Amtsgericht Saarbrücken HRA 10536 • USt.-IdNr.: DE 258118575 Persönlich haftende Gesellschafterin: OmniScriptum Holding GmbH, Handelsregister Amtsgericht Saarbrücken HRB 19539 Geschäftsführung: Dr. Wolfgang Philipp Müller (CEO)