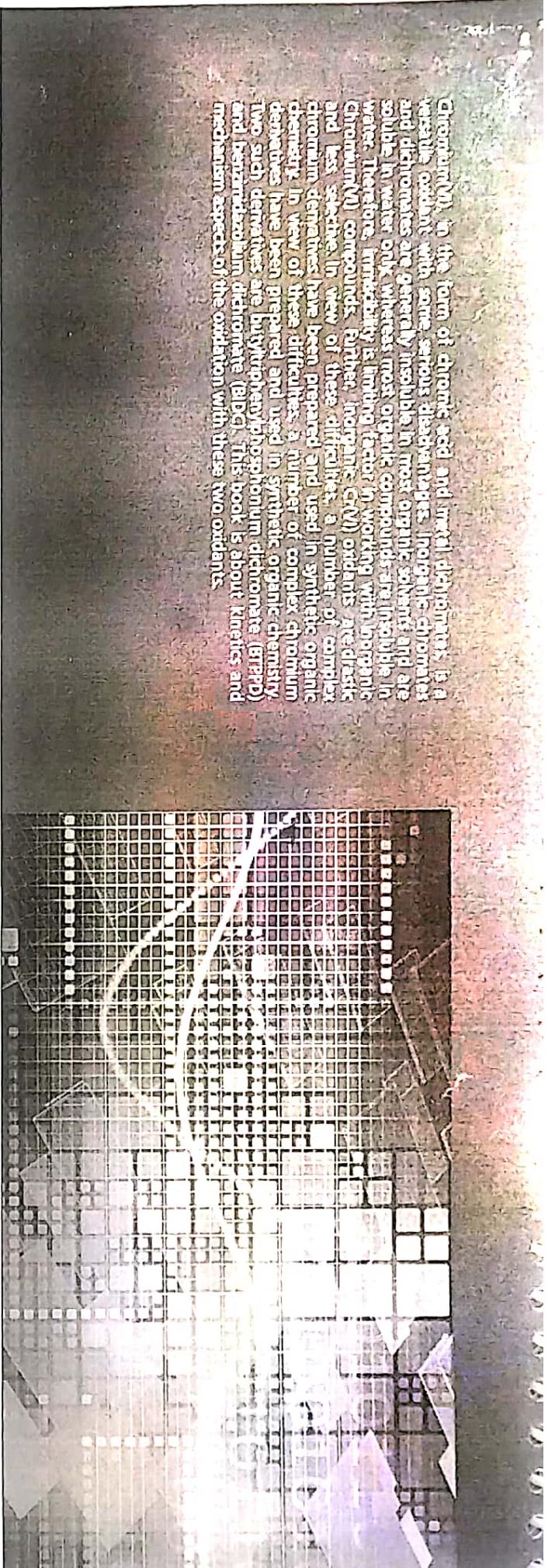


Chromium(VI) in the form of chromic acid and metal dichromates is a versatile oxidant with some serious disadvantages. Inorganic chromates and dichromates are generally insoluble in most organic solvents and are soluble in water only whereas most organic compounds are insoluble in water. Therefore, hydrolysis is limiting factor in working with inorganic Chromium(VI) compounds. Further, inorganic Cr(VI) oxidants are drastic and less selective. In view of these difficulties, a number of complex chromium derivatives have been prepared and used in synthetic organic chemistry. In view of these difficulties a number of complex chromium derivatives have been prepared and used in synthetic organic chemistry. Two such derivatives are butyltriphenylphosphonium dichromate (BRPD) and benzimidazolium dichromate (BIDC). This book is about kinetics and mechanism aspects of the oxidation with these two oxidants.



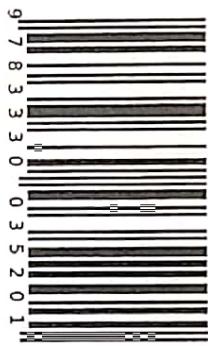
Dinesh Panday

Oxidation kinetics by mild and selective Chromium(VI) complexes

Oxidation kinetics of Chromium(VI) complexes



Dr. Dinesh Panday presently works as Assistant Professor of Chemistry in M. L. Sukhadia University, Udaipur (India). He has 9 years teaching as well as research experience. He published several research papers in National and International Journals. His research area is Chemical Kinetics and Reaction Mechanism.



Panday

LAP LAMBERT
Academic Publishing



Imprint

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.

Cover image: www.ingimage.com

Publisher:

LAP LAMBERT Academic Publishing

is a trademark of

International Book Market Service Ltd., member of OmniScriptum Publishing

Group

17 Meldrum Street, Beau Bassin 71504, Mauritius

Printed at: see last page

ISBN: 978-3-330-03520-1

Copyright © Dinesh Panday

Copyright © 2020 International Book Market Service Ltd., member of
OmniScriptum Publishing Group

FOR AUTHOR USE ONLY

CONTENTS

	Page No.
CHAPTER – I Introduction and Techniques	1 - 12
CHAPTER – II Kinetics and Mechanism of the Oxidation of Substituted Benzaldehydes by Butyltriphenyl- phosphonium Dichromate	13 - 47
CHAPTER – III Kinetics and Mechanism of the Oxidation of Primary Aliphatic Alcohols by Benzinimidazolium Dichromate	49 - 69
CHAPTER – IV Kinetics and Mechanism of the Oxidation of Diols by Butyltriphenylphosphonium Dichromate	71 - 88
REFERENCES	89 - 96