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Chemistry  
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***A textbook for  
B.Sc Classes  
as per the UGC  
Model  
Syllabus. The  
book is***

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***visually  
beautiful and  
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their  
enthusiasm  
and enjoyment  
of the subject  
in every  
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textbook is  
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***coloured  
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of organic  
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postgraduate  
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***series, entitled***

***“A Textbook of***

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***Chemistry -***

***Volume I, II,***

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Cross***

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**Conjugation;  
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***Enantiotopic***

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neighbouring  
group***

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and free  
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Regio- and che***

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***amides;  
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***Pratiyogita***

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***magazine) is***

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**Magazine.  
Pratiyogita**

**Darpan**

**(English  
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magazine) is  
known for  
quality**

**content on  
General  
Knowledge  
and Current**

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***Affairs. Topics ranging from national and international news/ issues, personality development, interviews of examination toppers, articles/ write-up on topics***

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*like career,*

*economy,*

*history, public  
administration*

*, geography,*

*polity, social,*

*environment,*

*scientific,*

*legal etc,*

*solved papers*

*of various*

*examinations,*

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***Essay and  
debate***

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and knowledge  
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***features are  
covered every  
month in this  
magazine.***

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Applications***

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on basic concepts

of inorganic

chemistry.

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Beginning with  
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Chemistry, it  
presents a  
systematic  
treatment of all  
Transition and  
Inner-Transition  
chemical elements  
and their  
compounds  
according to the  
periodic table.  
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as Pollution and its adverse effects, chromatography, use of metal ions in biological systems, to name a few, are discussed to provide additional relevant information to the students. It primarily caters to the undergraduate courses (Pass and



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This text deals with the new concepts and terminology that have been introduced into the treatment of organic stereochemistry over the last decade. Organic reaction mechanisms, as

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they relate to stereochemistry, are included, and the pericyclic reaction using the frontier molecular orbital approach is explained. The text does not assume a strong grounding in organic chemistry and will therefore be useful to a broader spectrum

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of students - both graduate and undergraduate. The volume features numerous illustrations and programmed problems. Industrial applications of Metal complexes have gained significant importance

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especially in the area of Catalysis in the last three decades. Scope for further development of such applications is extensive as several biological processes in living cells involve metal complexes.

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inorganic, physical,  
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A

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Inorganic and  
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Chemistry is the

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which is an  
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Resources deals with the discipline which studies the chemistry of the elements of the periodic table. It covers the following topics: From simple to complex compounds; Chemistry of

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metals;  
Inorganic  
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Radicals  
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materials and  
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Inorganic  
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and  
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catalysis;  
Cluster and  
polynuclear  
compounds;

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Structure and  
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Synthesis and  
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Energy and  
inorganic

chemistry. These

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two volumes are aimed at the following five major target audiences:

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practitioners,  
Research  
personnel and  
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managers, and

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decision makers  
and NGOs

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part of four  
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bonding,  
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Tertiary  
phosphine as  
ligand.

This book  
entitled  
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Chemistry-II",

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is an effort to present the subject matter in a comprehensible and easily understandable form. This textbook is purposefully prepared for the postgraduate Inorganic Chemistry second

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semester course  
and it covers  
all the topics  
recommended.

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Equations  
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the subject

explaining  
fundamentals

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concepts with  
discussions,  
illustrations  
and exercises.

With clear  
explanation,  
systematic  
presentation,  
and scientific  
accuracy, the  
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helps the

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students clear  
misconceptions  
about the  
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but also  
enhances  
students'  
ability to  
analyse and  
systematically  
solve  
problems. This

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bestseller is primarily designed for B.Sc. students and would equally be useful for the aspirants of medical and engineering entrance examinations.

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Chemistry is a

comprehensive

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discussing

theoretical

aspects of

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Chemistry.

Uniqueness of



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the book lies  
in treatment  
of all  
fundamental  
concepts, such  
as, Structure  
of Atom,  
Chemical  
Bonding, Inner  
Transition  
Elements and  
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with a modern  
approach.

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of text with  
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diagrams and  
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presentation  
of data makes  
understanding  
of concepts

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lucid and  
simple. The

book is

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students.

Stability

constants are

fundamental to

understanding

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the behavior  
of metal ions  
in aqueous  
solution. Such  
understanding  
is important  
in a wide  
variety of  
areas, such as  
metal ions in  
biology,  
biomedical

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applications,  
metal ions in  
the  
environment,  
extraction  
metallurgy,  
food  
chemistry, and  
metal ions in  
many  
industrial  
processes. In

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spite of this  
importance, it  
appears that  
many inorganic  
chemists have  
lost an  
appreciation  
for the  
importance of  
stability  
constants, and  
the

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thermodynamic  
aspects of  
complex  
formation,  
with attention  
focused over  
the last  
thirty years  
on newer  
areas, such as  
organometallic  
chemistry.

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This book is  
an attempt to  
show the  
richness of  
chemistry that  
can be  
revealed by  
stability  
constants,  
when measured  
as part of an  
overall



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strategy aimed  
at

understanding  
the complexing  
properties of  
a particular  
ligand or  
metal ion.

Thus, for  
example, there  
are numerous  
crystal

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structures of  
the  $\text{Li}^+$  ion  
with crown  
ethers. What  
do these  
indicate to us  
about the  
chemistry of  
 $\text{Li}^+$  with crown  
ethers? In  
fact, most of  
these crystal

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structures are  
in a sense  
misleading, in  
that the  $\text{Li}^+$   
ion forms no  
complexes, or  
at best very  
weak  
complexes,  
with familiar  
crown ethers  
such as

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12-crown-4, in any known solvent. Thus, without the stability constants, our understanding of the chemistry of a metal ion with any particular ligand must be

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regarded as  
incomplete. In  
this book we  
attempt to  
show how  
stability  
constants can  
reveal factors  
in ligand  
design which  
could not  
readily be

deduced from  
any other  
physical  
technique.

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chemical concepts,  
theories and principles  
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concise manner, so that  
even an average student  
can grasp the intricacies  
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*main group  
elements and  
their  
compounds. It  
primarily  
caters to the  
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courses (Pass  
and Honours)  
offered in  
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universities.*

*Primarily*  
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*intended for  
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book deals with  
the practical  
aspects of  
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the various  
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*reaction  
mechanism of  
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*understandable.*

*The question*

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*Stereochemistry*  
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In the current era  
of incessant  
developing needs  
for the betterment  
and ease in living  
style for humans,

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technology is  
seeking upgraded,

well structured

materials for

utilization in

various fields of

human-wellness

such as

medication,

energy,

environment

protection and

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cleaning, food  
security etc. In

the same

direction,

chemists are

doing very well at

synthesizing

compounds and

materials from

different groups

of chemicals.

Among them,

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coordination

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compounds also

play a key role in  
serving humanity  
as these

compounds have a  
wide range of  
applications in  
health care from  
antimicrobial to  
anticancer,  
bioengineering,

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bio-mimetic

models, catalysis,

photosensitized

materials etc.

Along with

development of

stable

coordination

compounds, their

extensive

structural studies

are also in the

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main line of work  
for researchers.

Twenty-nine  
authors from  
different  
countries have  
contributed their  
scientific views  
and work in  
magnifying the  
importance and  
scope of

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coordination  
compounds in the  
present book  
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hope that the  
book will achieve  
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researchers and  
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in the field of

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