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NMR Spectroscopy

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~~Spectroscopy~~

~~Solving NMR Step~~

~~by StepTRICK TO~~

~~SOLVE NMR~~

~~PROBLEM IN JUST~~

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*Molecular  
Structure From  
an NMR Spectrum*  
**Solved Problems**

**on NMR**

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ctroscopy/Carbon  
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*Hindi(Part-8)*

**NMR**

**Spectroscopy-  
Structure**

**Determination of  
Organic Compound  
using NMR data**

~~Carbon-13 NMR~~

~~Spectroscopy~~ **Lec**

**1 Proton NMR**

Spectroscopy -

How To Draw The  
Structure Given

The Spectrum



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*Introduction to  
NMR spectroscopy*

NMR spectroscopy  
visualized ~~H-NMR~~

~~Predicting~~

Molecular

~~Structure Using~~

~~Formula + Graph~~

~~NMR Spectroscopy~~

**2D NMR 1H 1H**

**Cosy** *Running an*

*NMR spectrum IR*

~~Spectroscopy~~ NMR

????? ?????? ~~1H~~

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Interpretation  
Part I Examples~~

**Introduction to  
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~~More Practice~~

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*Proton NMR - How*

*To Analyze The*

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Spectroscopy How  
To Calculate  
 $^{13}\text{C}$ NMR Chemical  
Shift of Organic  
Compounds Part 4

| NMR

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\u0026 HMQC.

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Chemical Shift

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Chem605 NMR

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Aside from the  $^1$

H NMR, we will

also go over

determining the

hydrogen

deficiency index

(HDI), solving

problems where

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the  $^{13}\text{C}$  NMR,  
DEPT, and IR are  
given along with  
the  $^1\text{H}$  NMR  
spectrum.

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requires  
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NMR, DEPT, COSY

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and IR spectra  
of various  
compounds

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identification

of organic

compounds using

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This text

presents a

unified approach

to the structure

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organic  
compounds based  
largely on mass  
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and multinuclear

and

multidimensional

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spectroscopy.

The key strength of this text is the extensive set of practice and real-data problems (in Chapters 7 and 8). Even professional chemists use these spectra as reference data.

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Identification

Organic

Compounds Answer

Key



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Spectrometry  
Identification  
of Organic

Compounds is  
written by and  
for organic  
chemists, and  
emphasizes the  
synergistic  
effect resulting  
from the  
interplay of the  
spectra. About  
the Author

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Francis X.

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New York,

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already have a

general

structure

determination

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textbook (such as the Lambert or Silverstein books).

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how to identify  
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The problems are chosen to demonstrate the most common patterns in  $^1\text{H}$  NMR

spectroscopy, as well as, the situations where you need to consider the possibility of signal overlapping,

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incorrect  
absolute values  
of integrations,  
as the

instrument  
measures only  
the relative  
area for each  
peak, examples  
where fairly  
large molecules  
give rise to  
spectra with few  
signals because

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of the symmetry elements. We will also discuss the purpose of shaking the sample with deuterated solvents.

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"Nuclear  
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Organic  
Chemistry,"  
Academic Press,  
London, 1967.  
QC762/M28/2 L.

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M. Jackman and  
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"Applications of  
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Resonance

Spectroscopy in  
Organic  
Chemistry,"  
Pergamon Press,  
Oxford, 1969.

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problem 8.31 in

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follow. Mass

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Suppose 134 is

the molecular

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77 is characteristic for aromatic compounds with a benzene moiety.

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