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using NMR, IR, and

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Using Formula +

Graph Determine

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4 Solving Another

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The aldehyde group

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is obvious from the ^{13}C spectrum (C9 at 190.3) and the DEPT spectrum which indicates that the carbonyl has one attached proton. 2. The aldehyde proton (H9) is obvious in the ^1H NMR spectrum as a 1-proton resonance at 9.60 ppm.

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revealed that

simulated Raman

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at all Universities.
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a number of
powerful two-

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TOCSY, COSY and

NOESY) have been

developed and

these have vastly

expanded the

amount of structural

information that can

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be obtained by NMR
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now mean that 2D
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routinely (and
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organic compounds.

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students using

problems in your

book - they initially

find it as a task. But

after doing 3-4

problems with all

their brains

activities... working

out the rest of the

problems become a

mania. They get

addicted to the

problem solving and

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every time they

solve a problem by

themselves, their

confident level also

increases. ” “ I am

teaching the

fundamentals of

Molecular

Spectroscopy and

your books

represent excellent

sources of

spectroscopic

problems for

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Spectra Solutions

The derivation of structural information from spectroscopic data is now an integral part of organic chemistry courses at all Universities. Over recent years, a number of powerful two – dimensional

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NMR techniques From

(e.g. HSQC, HMBC,
TOCSY, COSY and
NOESY) have been

developed and

these have vastly

expanded the

amount of structural

information that can

be obtained by NMR

spectroscopy.

Improvements in

NMR

instrumentation

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NMR spectra are

routinely (and
sometimes

automatically)

acquired during the

identification and

characterisation of

organic compounds.

Organic Structures

from 2D NMR

Spectra is a

carefully chosen set

of more than 60

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Structural problems

employing 2D – NMR

spectroscopy. The

problems are

graded to develop

and consolidate a

students

understanding of 2D

NMR spectroscopy.

There are many

easy problems at

the beginning of the

collection, to build

confidence and

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demonstrate the
basic principles
from which
structural

information can be
extracted using 2D
NMR. The

accompanying text
is very descriptive
and focussed on
explaining the
underlying theory
at the most
appropriate level to

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Sufficiently tackle
the problems.

Organic Structures
from 2D NMR

Spectra: – Is a
graded series of
about 60 problems
in 2D NMR

spectroscopy that
assumes a basic
knowledge of
organic chemistry
and a basic
knowledge of

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Structures From

NMR spectroscopy

– Incorporates the
basic theory behind

2D NMR and those

common 2D NMR

experiments that

have proved most

useful in solving

structural problems

in organic

chemistry –

Focuses on the

most common 2D

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NMR techniques from
including COSY,
NOESY, HMBC,
TOCSY,

CH – Correlation and
multiplicity – edited

C – H Correlation. –

Incorporates

several examples

containing the

heteronuclei ^{31}P ,

^{15}N and ^{19}F

Organic Structures

from 2D NMR

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Spectra is a logical follow – on from the highly successful Organic Structures from Spectra which is now in its fifth edition. The book will be invaluable for students of Chemistry, Pharmacy, Biochemistry and those taking courses in Organic

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Chemistry. Organic

Structures from 2D

NMR Spectra is

complimented by

the Instructors

Guide and Solutions

Manual to Organic

Structures from 2D

NMR Spectra which

is a set of

step – by – step

worked solutions to

every problem in

the book. While it is

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absolutely clear
Spectra
Solutions

that there are many
ways to get to the
correct solution of

any of the

problems, the

instructors guide

contains at least

one complete

pathway to every

one of the

questions. In

addition, the

instructors guide

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carefully
rationalises every

peak in every

spectrum in relation

to the correct

structure. The

Instructors Guide

and Solutions

Manual to Organic

Structures from 2D

NMR Spectra: – Is a

complete set of

worked solutions to

the problems

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Organic Structures

from 2D NMR

Spectra. – Provides

a step – by – step

description of the

process to derive

structures from

spectra as well as

annotated 2D

spectra indicating

the origin of every

cross peak. –

Highlights common

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Structures and From

re – enforces the
important

characteristics of
the most common

techniques 2D NMR
techniques including

COSY, NOESY,
HMBC, TOCSY,

CH – Correlation and
multiplicity – edited

C – H Correlation.

This guide is an
essential aid to

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those teachers,
lecturers and

instructors who use

Organic Structures

from 2D NMR as a

text to teach

students of

Chemistry,

Pharmacy,

Biochemistry and

those taking

courses in Organic

Chemistry.

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Through numerous
examples, the
principles of the
relationship

between chemical
structure and the
NMR spectrum are
developed in a
logical, step-by-
step fashion

Includes examples
and exercises
based on real NMR
data including full

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NMR data for use in understanding the material Describes both simple aspects of solution-state NMR of small molecules as well as more complex topics not usually covered in NMR books such as complex splitting patterns, weak long-range couplings,

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analysis of strong
coupling patterns
and resonance

structure analysis
for prediction of
chemical shifts

Advanced topics
include all of the
common two-
dimensional
experiments

(COSY, ROESY,
NOESY, TOCSY,

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HSQC, HMBC) From

covered strictly
from the point of
view of data

interpretation, along
with tips for
parameter settings

Although numerical
data are, in
principle, universal,
the compilations
presented in this
book are

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extensively
annotated and
interleaved with
text. This

translation of the
second German
edition has been
prepared to
facilitate the use of
this work, with all
its valuable detail,
by the large
community of
English-speaking

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Translation has also provided an opportunity to correct and revise the text, and to update the nomenclature.

Fortunately, spectroscopic data and their relationship with structure do not change much with

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time so one can

predict that this

book will, for a long

period of time,

continue to be very

useful to organic

chemists involved

in the identification

of organic

compounds or the

elucidation of their

structure. Klaus

Biemann

Cambridge, MA,

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to the First German

Edition Making use

of the information

provided by various

spectroscopic tech

niques has become

a matter of routine

for the analytically

oriented organic

chemist. Those who

have graduated

recently received

extensive training

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as part of the
curriculum while
their older

colleagues learned
to use these
methods by

necessity. One can,
therefore, assume

that chemists are
well versed in the
proper choice of the
methods suitable

for the solution of a

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particular problem
and to translate the
experimental data
into structural
information.

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