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The Theoretical  
Plate Model of  
Chromatography:  
The plate model  
supposes that the  
chromatographic  
column contains a  
large number of  
separate layers,

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called theoretical plates. Separate equilibrations of the sample between the stationary and mobile phase occur in these “ plates ” .

Chromatography:  
Basics, Principles  
and Theories  
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Peaks, J.P. Foley

and J.G. Dorsey,

Anal. Chem., 55:

730-737, 1983 26

Separating

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variance  $\sigma^2$  (units:

$\text{s}^2$ ) – determined



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3 Introduction,  
Chromatography  
Theory, and  
Instrument

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Calibration 4 5 1.1

Introduction 6 7

Analytical chemists have few tools as powerful as chromatography to measure distinct analytes in complex samples. The power of chromatography comes from its ability to separate a mixture of compounds, or

Acces PDF  
Theory And  
“analytes”, and  
Chromatograph  
CHAPTER 1 2 3  
Introduction,  
Chromatography  
Theory, and ...

Using the theory of band broadening, the efficiency of chromatographic columns can be approximated by the van Deemter equation:  $H = A +$

# Acces PDF Theory And

$$\frac{B}{u} + C_{Su} + C_{Mu}$$

where H is the plate height in

centimeters and u is the linear velocity of the mobile phase in centimeters per second.

Chromatography -  
Chemistry  
LibreTexts  
Principle of

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Theory And

Chromatography Of

(how does  
chromatography  
work)

Chromatography is based on the principle where molecules in mixture applied onto the surface or into the solid, and fluid stationary phase (stable phase) is separating

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Theory And

from each other  
while moving with  
the aid of a mobile  
phase.

Chromatographic Methods

Chromatography-  
definition, principle,  
types, applications  
' Chromatography '  
is an analytical  
technique  
commonly used for  
separating a  
mixture of chemical

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Theory And

substances into its

individual

components, so that

the individual

components can be

thoroughly

analyzed.

Principles of

chromatography |

Stationary phase

(article ...

Rate theory and

plate theory are



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Theory And

important in

chromatographic  
separation

techniques. The

key difference

between rate

theory and plate

theory is that rate

theory describes

the properties of a

chromatographic

separation via

comparing the rate

of analyte that

# Acces PDF Theory And

elutes through the column, whereas plate theory describes the properties of chromatographic separation via determining the number of hypothetical plates in the column.

Difference Between  
Rate Theory and

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Theory And

Plate Theory |

Compare ...

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Chromatographic ...

Chromatography is

a physical method

of separation that

distributes

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Components Of

separate between

two phases, one

stationary

(stationary phase),

the other (the

mobile phase)

moving in a definite

direction. The

eluate is the mobile

phase leaving the

column. This is also

called effluent. The

eluent is the solvent

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Theory And

that carries the  
analyte.

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Theories of  
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There are two  
theories to explain  
chromatography

Plate theory -  
older; developed by  
Martin & Synge in  
1941      Rate theory

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Theory And

- currently in use

Proposed by van  
Deemter in 1956

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dynamics of the  
separation

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contains many  
worked equations

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examples in gas and  
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chromatography. It

includes numerous

schematic figures

for visualization of

key concepts,

introduces the

means to control

migration rate



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differences and

zone spreading, and

presents a detailed

random-walk model

for clarification of

column processes.

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consists of two

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phases: one mobile phase and one contiguous stationery phase.

The stationery phase a paper and the mobile gas is solvent. The compound mixture moves along with the mobile phase through stationery phase and separates

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Theory And

depending on the  
different degree of  
adhesion (on the  
paper) of each  
component in the  
sample or the  
compound mixture.

Paper

Chromatography

Definition,

Principles,

Procedure And ...

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Chromatography, in  
analytical  
chemistry, a  
technique for  
separating  
dissolved chemical  
substances by  
taking advantage of  
their different rates  
of migration across  
sheets of paper. It  
is an inexpensive  
but powerful  
analytical tool that

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requires very small quantities of material.

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The plate theory of chromatography was developed by Archer John Porter Martin and Richard Laurence Millington

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Syngé. The plate theory describes the chromatography system, the mobile and stationary phases, as being in equilibrium. The partition coefficient  $K$  is based on this equilibrium, and is defined by the following equation:

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chemeuropa.com Of

In addition, the  
analytical solution

of the processes is  
given at the level of

secondary  
mathematics.

Chromatography  
itself is potentially  
treated in  
secondary  
education at various  
levels from paper  
chromatography to

# Acces PDF Theory And Mathematics Of gas chromatography.

This general  
knowledge makes it  
more accessible to  
students as a  
subject for  
deepening by  
modeling and ...

Mathematical  
Modeling in  
Secondary  
Chemistry



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Education ...

Although there are different types of chromatography

that vary depending

on the type of

stationary and

mobile phase used,

the basic principle

is the same. That

is, differential

affinities of

different

components in the

# Acces PDF Theory And

substance towards  
the stationary and  
mobile phases  
causes differential  
separation of the  
components.

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