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Calculation of Column Efficiency

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~~layer chromatography (TLC) principle  
explained The principle of Column  
Chromatography and  
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Column Chromatography Quantitative  
Analysis Het periodiek systeemlied  
(2018 UPDATE!) Lec-14 | van  
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The Theoretical Plate Model of  
Chromatography: The plate model  
supposes that the chromatographic

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column contains a large number of separate layers, called theoretical plates. Separate equilibrations of the sample between the stationary and mobile phase occur in these “plates”.

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Equations for Calculation of  
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Ideal and Skewed Peaks, J.P. Foley  
and J.G. Dorsey, Anal. Chem., 55:  
730-737, 1983 26 Separating  
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## **Theory and mathematics of chromatography (Book, 1981 ...**

3 Introduction, Chromatography

Theory, and Instrument Calibration 4 5

1.1 Introduction 6 7 Analytical

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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 “analytes”, and

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## **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:  $H = A + \frac{B}{u} + C_s u + C_m u$ . where H is the plate height in centimeters and u is the

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linear velocity of the mobile phase in centimeters per second.

## **Chromatography - Chemistry LibreTexts**

Principle of Chromatography (how does chromatography work)

Chromatography is based on the

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principle where molecules in mixture applied onto the surface or into the solid, and fluid stationary phase (stable phase) is separating from each other while moving with the aid of a mobile phase.

**Chromatography- definition,**

*Page 21/42*

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## **principle, types, applications**

‘Chromatography’ is an analytical technique commonly used for separating a mixture of chemical substances into its individual components, so that the individual components can be thoroughly analyzed.

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## **Principles of chromatography | Stationary phase (article ...**

Rate theory and plate theory are important in chromatographic separation techniques. The key difference between rate theory and plate theory is that rate theory

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



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## **Difference Between Rate Theory and Plate Theory | Compare ...**

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## **Theory And Mathematics Of Chromatography Chromatographic**

...

Chromatography is a physical method

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of separation that distributes components to 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 that carries

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the analyte. chromatography

## Chromatographic Methods

### **Chromatography - Wikipedia**

Theories of chromatography 1. ?

There are two theories to explain chromatography ? Plate theory - older; developed by Martin & Synge in 1941

? Rate theory - currently in use ?

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Proposed by van Deemter in 1956 ?  
Accounts for the dynamics of the  
separation

## **Theories of chromatography - SlideShare**

Written by a world-renowned pioneer  
in the field, Dynamics of

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Chromatography contains many worked equations and real-world examples in gas and liquid chromatography. It includes numerous schematic figures for visualization of key concepts, introduces the means to control migration rate differences and zone spreading, and presents a

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detailed random-walk model for  
clarification of column processes.

## **Dynamics of Chromatography | Taylor & Francis Group**

Paper Chromatography consists of two  
phases: one mobile phase and one  
contiguous stationery phase. The

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stationery phase a paper and the mobile gas is solvent. The compound mixture moves along with the mobile phase through stationery phase and separates depending on the different degree of adhesion (on the paper) of each component in the sample or the compound mixture.



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## **Paper Chromatography Definition, Principles, Procedure And ...**

Paper chromatography, in analytical chemistry, a technique for separating dissolved chemical substances by taking advantage of their different rates of migration across sheets of

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paper. It is an inexpensive but powerful analytical tool that requires very small quantities of material.

## **paper chromatography | Definition, Method, & Uses | Britannica**

The plate theory of chromatography was developed by Archer John Porter

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Martin and Richard Laurence  
Millington Synge. 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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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

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

## **Mathematical Modeling in Secondary Chemistry Education ...**

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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 substance towards the stationary and mobile phases causes differential separation

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of the components.

## Chromatographic Methods

### **How does Chromatography work? - Types, Uses and Applications**

Mathematical Modeling and Scale-up  
of Liquid Chromatography. A book  
(original 1 st edition) written by  
Tingyue Gu, Dept. of Chemical

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Engineering, Ohio University

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## **Mathematical Modeling and Scale- up of Liquid Chromatography**

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