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Emmett, Virtual Book Video~~

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(BOOKSIGNING/WATTPAD  
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Professor Paul H. Emmett  
Chemistry Department

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Portland State University

P.O. Box 751 Portland,

Oregon 97207 June 17, 1977

the fact that nitrogen at  $-195^{\circ}\text{C}$  is about 5% imperfect at atmospheric pressure, the correction being a linear function of the pressure.

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Adsorption Of Gases In  
Instead of a curve with  
kinks a smooth S-shaped  
isotherm was obtained with  
nitrogen at  $-195^{\circ}\text{C}$ .

~~Brunauer S, Emmett P H &  
Teller E. Adsorption of  
gases in ...~~

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Paul Hugh Emmett was an American chemist best known for his pioneering work in the field of catalysis and for his work on the Manhattan Project during World War II. He spearheaded the research to separate



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isotopes of uranium and to develop a corrosive uranium gas. Emmett also made significant contributions to BET Theory which explains the relationship between surface area and gas adsorption. He served on the

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faculty of Johns Hopkins  
University for 23 years  
throughout his scientific  
career.

~~Paul Hugh Emmett — Wikipedia~~  
S. Brunauer, P. H. Emmett  
and E. Teller, "Adsorption

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Emmett P H Teller E

of Gases in Multimolecular  
Layers," Journal of the  
American Chemical Society,  
Vol. 60, No. 2, 1938, pp.  
309-319.

~~S. Brunauer, P. H. Emmett  
and E. Teller, "Adsorption~~

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The gas adsorption technique is based on the Brunauer-Emmett-Teller (BET) model included in the determination of the amount of gas that is adsorbed on the surface of the sample at

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low temperatures [13]. The specific surface area ( $m^2/g$ ) defined by this method comprises the outward as well as the internal (open pores) surface area.

However, the surface area of closed pores cannot be

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determined because of its  
inaccessibility for  
adsorbing gas molecules.

~~Brunauer Emmett Teller Model  
—an overview—~~

~~ScienceDirect ...~~

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By making use of the  
evaporation?condensation  
properties of liquid  
mixtures, the  
Brunauer?Emmett?Teller  
theory of multimolecular  
adsorption is extended to  
mixtures of gases. No

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satisfactory experimental  
data are available at the  
present time with which to  
test the theory.

~~Theory of Multimolecular  
Adsorption from a Mixture of~~

~~...~~

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Emmett PH, Brunauer S, Love  
KS. The measurement of  
surface areas of soils and  
soil colloids by the use of  
low temperature van der  
waals adsorption isotherms  
Soil Science. 45: 57-65. 1:  
1937: Emmett PH, Brunauer S.

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Emmett P H Teller E

Accumulation of alkali  
promoters on surfaces of  
iron synthetic ammonia  
catalysts Journal of the  
American Chemical Society.  
59: 310-315. 1: 1937

~~Paul Hugh Emmett~~

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## ~~Publications~~ Of Gases In

310 STEPHEN BRUNAUER, P. H.  
EMMETT AND EDWARD TELLER

Vol. 60 DeB~er~'~ in several  
papers showed that various  
experimental adsorption  
isotherms could be fitted by  
equation (4a). However, they

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Adsorption Of Gases In  
could not evaluate  $K_1$   
because in all cases, except  
one, the surface, and  
therefore  $v_m$ , was not known.

~~[CONTRIBUTION FROM THE  
BUREAU OF Adsorption Gases  
in ...]~~

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P. H. Emmett's 15 research works with 1,206 citations and 356 reads, including:

THE APPLICATION OF POLANYI'S POTENTIAL THEORY TO THE VAN DER WAALS ADSORPTION OF GASES ON IRON SYNTHETIC AMMONIA . . .

# Online Library Brunauer S Emmett P H Teller E Adsorption Of Gases In

~~P. H. Emmett's research  
works~~

Brunauer-Emmett-Teller  
theory aims to explain the  
physical adsorption of gas  
molecules on a solid surface  
and serves as the basis for



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Adsorption Of Gases In  
an important analysis  
technique for the  
measurement of the specific  
surface area of materials.  
The observations are very  
often referred to as  
physical adsorption or  
physisorption. In 1938,

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Stephen Brunauer, Paul Hugh Emmett, and Edward Teller published the first article about the BET theory in the Journal of the American Chemical Society. The BET theory ...

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~~BET theory - Wikipedia In~~

Stephen Brunauer, P. H.  
Emmett, and ; Edward Teller;  
Journal of the American  
Chemical Society 1938, ...  
Herbert S. Harned; Journal  
of the American Chemical  
Society 1938, ...

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## Adsorption Of Gases In

~~Journal of the American  
Chemical Society | Vol 60,  
No 2~~

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Martyn S. Brown, Silvia



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Flor Siperstein, David  
Fairen-Jimenez, Klaus  
Hellgardt, Russell Purves,  
David Law, Camille Petit.  
Screening Metal-Organic  
Frameworks for Dynamic CO/N<sub>2</sub>  
Separation Using

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Complementary Adsorption  
Measurement Techniques.

~~Adsorption of Gases in  
Multimolecular Layers |  
Journal of ...~~

Brunauer, S., Emmett, P.H.  
and Teller, E. (1938)

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Adsorption of Gases in  
Multimolecular Layers.  
Journal of the American  
Chemical Society, 60,  
309-319.

~~Brunauer, S., Emmett, P.H.  
and Teller, E. (1938 ...~~

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Adsorption Of Gases

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gases in multimolecular  
layers. Journal of the  
American Chemical Society  
60:309-19, 1938. 211 ...

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~~E Adsorption Of Gases In~~

Brunauer, S., Emmett, P.H.,  
Teller, E., "Adsorption of  
gases in multimolecular  
layers," Journal of the  
American Chemical Society,  
60 (2). 309-319. 1938.

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~~Brunauer, S., Emmett, P.H.,  
Teller, E., "Adsorption of  
...~~

The Brunauer-Emmett-Teller  
(BET) equation (Brunauer et  
al., 1938) overcomes the  
limitation to a monolayer of  
sorbate and currently is a

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commonly used model to describe the multilayer adsorption of gas molecules on a sorbent (Brunauer et al., 1938). For water adsorption, the BET equation can be written as



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Adsorption Of Gases In

Physical Methods in Chemical  
Analysis, Volume II  
discusses analytical  
procedures that deal

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primarily with nonchemical methods and techniques useful in establishing the qualitative nature of unknowns. This book discusses electrical, magnetic, and miscellaneous techniques, including a

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number of methods that only measure non-specific properties to obtain quantitative information on relatively simple systems such as conductometric titration and radioactive tracer methods. This volume

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emphasizes two major tasks that analysts need to do in order to perform analysis. First is to conduct preliminary operations that bring the system under investigation into physical states suitable for

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analysis. Second is to measure physical constants that can be compared with known systems for identity or can be interpreted in terms of structure and organization. This publication is a recommended

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reference for students and  
chemists working on chemical  
analysis.

Advances in Catalysis

The rapid growth of interest  
in powders and their surface

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properties in many diverse industries prompted the writing of this book for those who have the need to make meaningful measurements without the benefit of years of experience. It is intended as an introduction

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Adsorption Of Gases In  
to some of the elementary  
theory and experimental  
methods used to study the  
surface area, porosity,  
density, and particle size  
of powders. It may be found  
useful by those with little  
or no training in solid



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Adsorption Of Gases In  
surfaces who have the need  
to learn quickly the  
rudiments of surface area,  
density, pore size, and  
particle size measurements.

S. Lowell J.E. Shields

Symbols Use of symbols for  
purposes other than those

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indicated in the following  
table are so defined in the  
text. Some symbols not shown  
in the table are also  
defined in the text.  $d$   
adsorbate cross-sectional  
area  $A$  area; condensation  
coefficient; collision

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frequency C BET constant c  
concentration D diameter;  
coefficient of thermal  
diffusion E adsorption  
potential permeability  
aspect factor f F flow rate;  
force; feed rate g  
gravitational constant G

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Gibbs free energy  $S$   $G$  free  
surface energy  $h$  heat of  
immersion per unit area;  
height  $H$  enthalpy heat of  
immersion  $H_i$  heat of  
adsorption  $H_{sv}$  BET  
intercept; filament current  
 $k$  thermal conductivity;

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specific reaction rate  $K$

Harkins-Jura constant  $C$

length  $L$  heat of

liquefaction  $M$  mass  $M$

molecular weight  $MPa$

megapascals number of moles

$n$  number of molecules;

number of particles  $N$   $N$

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Avogadro's number molecular  
collisions per square cm per  
second

This is the fifth edition of  
the highly successful work

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Adsorption Of Gases In  
first published in 1968,  
comprising two definitive  
volumes on particle  
characterisation. The first  
volume is devoted to  
sampling and particle size  
measurement, while surface  
area and pore size

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determination are reviewed  
in volume 2. Particle size  
and characterisation are  
central to understanding  
powder properties and  
behaviour. This book  
describes numerous potential  
measuring devices, how they



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operate and their advantages and disadvantages. It comprise a fully comprehensive treatise on the wide range of available equipment with an extensive literature survey, and a list of manufacturers and

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suppliers. The author's  
blend of academic and  
industrial experience  
results in a readable  
technical book with  
information on how to  
analyse, present, and  
extract useful information

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Adsorption Of Gases In  
from data. This is an  
essential reference book for  
both industrial and academic  
research workers in a  
variety of areas including:  
pharmaceuticals, food  
science, pollution analysis  
and control, electronic

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materials, agricultural  
products, polymers, pigments  
and chemicals.

THE PHYSICAL BASIS FOR  
HETEROGENEOUS CATALYSIS is  
the proceedings of the ninth  
Battelle Colloquium in the

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Materials Sciences, held in  
Gstaad, Switzerland,  
September 2-6, 1974. It took  
as its theme the application  
of modern theoretical and  
experimental surface physics  
to heterogeneous catalysis.  
Progress in the field by

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classical chemical methods  
seemed to have slowed down,  
at a time when the need for  
better catalysts was  
particularly great. The  
Organizing Committee thought  
it might be possible to  
accelerate progress by the

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Application of the powerful techniques evolved in recent years for studying atomically clean surfaces. However, the translation of ideas derived from clean single crystal surfaces with well characterized

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chemisorbed layers to real catalysts with high ratios of surface to mass on which reactions were taking place and requiring transport of mass and energy is a giant step, raising many questions and requiring thorough



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Adsorption Of Gases In  
discussion by surface  
physicists on the one hand  
and catalytic chemists on  
the other. The 1974 Battelle  
Colloquium provided a forum  
for this exchange. As its  
usual custom, the Colloquium  
started the first day of

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introduction lectures by  
three distinguished  
scientists who have  
contributed importantly  
over many years to this  
field.

High surface area, a

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microporous structure, and a high degree of surface reactivity make activated carbons versatile adsorbents, particularly effective in the adsorption of organic and inorganic pollutants from aqueous

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solutions. Activated Carbon  
Adsorption introduces the  
parameters and mechanisms  
involved in the activated  
carbon adsorption

The growth of interest in  
newly developed porous

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materials has prompted the writing of this book for those who have the need to make meaningful measurements without the benefit of years of experience. One might consider this new book as the 4th edition of "Powder

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Surface Area and Porosity"  
(Lowell & Shields), but for  
this new edition we set out  
to incorporate recent  
developments in the  
understanding of fluids in  
many types of porous  
materials, not just powders.

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Based on this, we felt that it would be prudent to change the title to "Characterization of Porous Solids and Powders: Surface Area, Porosity and Density". This book gives a unique overview of principles

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associated with the  
characterization of solids  
with regard to their surface  
area, pore size, pore volume  
and density. It covers  
methods based on gas  
adsorption (both physi and  
chemisorption), mercury



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porosimetry and pycnometry.  
Not only are the theoretical  
and experimental basics of  
these techniques presented  
in detail but also, in light  
of the tremendous progress  
made in recent years in  
materials science and

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nanotechnology, the most recent developments are described. In particular, the application of classical theories and methods for pore size analysis are contrasted with the most advanced microscopic

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theories based on  
statistical mechanics (e.g.  
Density Functional Theory  
and Molecular Simulation).  
The characterization of  
heterogeneous catalysts is  
more prominent than in  
earlier editions; the

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Adsorption of Gases In  
sections on mercury  
porosimetry and particularly  
chemisorption have been  
updated and greatly  
expanded.

The growth of interest in  
newly developed porous

# Online Library Brunauer S Emmett P H Teller E

materials has prompted the writing of this book for those who have the need to make meaningful measurements without the benefit of years of experience. One might consider this new book as the 4th edition of "Powder

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Surface Area and Porosity"  
(Lowell & Shields), but for  
this new edition we set out  
to incorporate recent  
developments in the  
understanding of fluids in  
many types of porous  
materials, not just powders.

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adsorption (both physi and  
chemisorption), mercury



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these techniques presented  
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of the tremendous progress  
made in recent years in  
materials science and

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nanotechnology, the most recent developments are described. In particular, the application of classical theories and methods for pore size analysis are contrasted with the most advanced microscopic

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theories based on  
statistical mechanics (e.g.  
Density Functional Theory  
and Molecular Simulation).  
The characterization of  
heterogeneous catalysts is  
more prominent than in  
earlier editions; the

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porosimetry and particularly  
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