presentation/演示文稿

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TongJi University

November 10, 2013

目录

幻灯片测试

我的第一张幻灯片。

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我的第一张幻灯片。

Definition

definition 1...

Proof.

We leave the proof as an exercise to our astute reader. We also suggest that the reader generalize the proof to non-Euclidean geometries. □

A sample slide

A displayed formula:

$$\int_{-\infty}^{\infty} e^{-x^2}\,dx = \sqrt{\pi}$$

An itemized list:

- itemized item 1
- itemized item 2

Theorem

In a right triangle, the square of hypotenuse equals the sum of squares of two other sides.

$$u + iv = a\sin(x + iy) \tag{1}$$

$$u = a\sin x\cosh y, \tag{2}$$

$$v = a\cos x\sinh y \tag{3}$$

Acknowledgment

Fred Gornik, Power+Energy, Inc.
http://powerandenergy.com

If you click here, you will jump to the slide labeled “sample”.
Clicking here will also take you to the “sample” slide.

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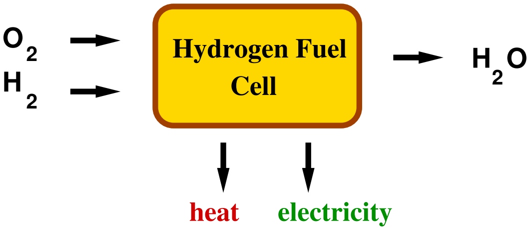
Hydrogen fuel cells: overview



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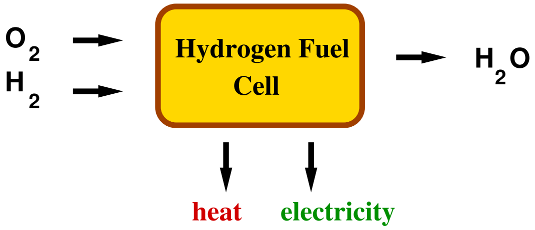
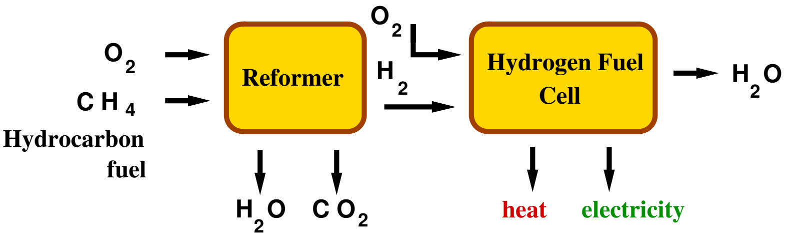
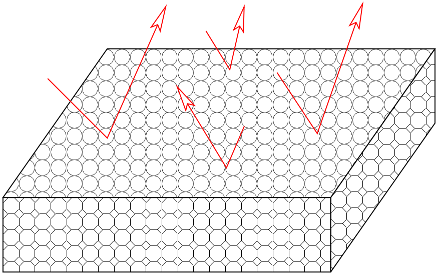




The Hydrogen-Palladium interface

Γ_0 = rate of hydrogen molecules impacting a surface
Representative value: 10^{19} hits/cm^2/sec
Γ_0 *proportional* to pressure



Around 10^{14} surface sites/cm^2

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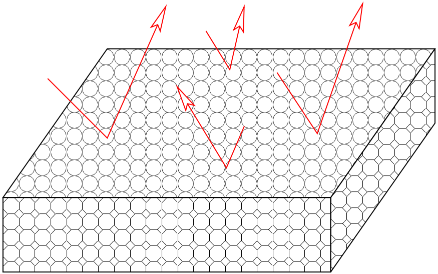

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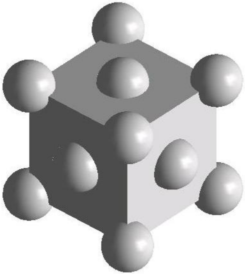

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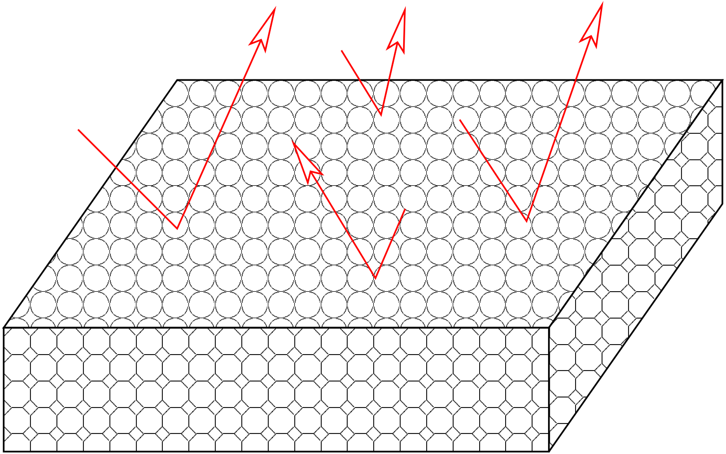

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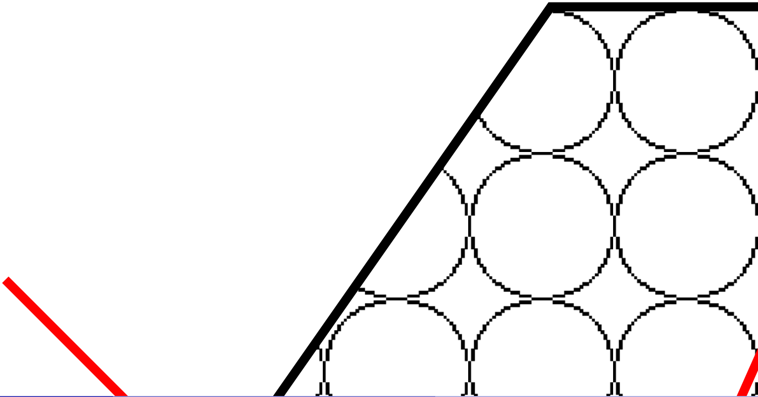

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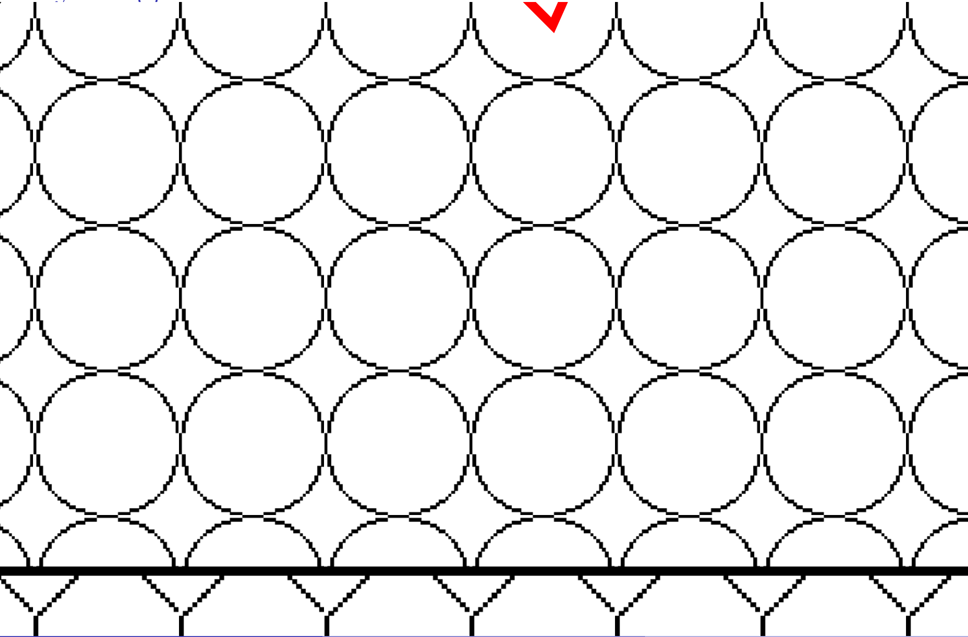

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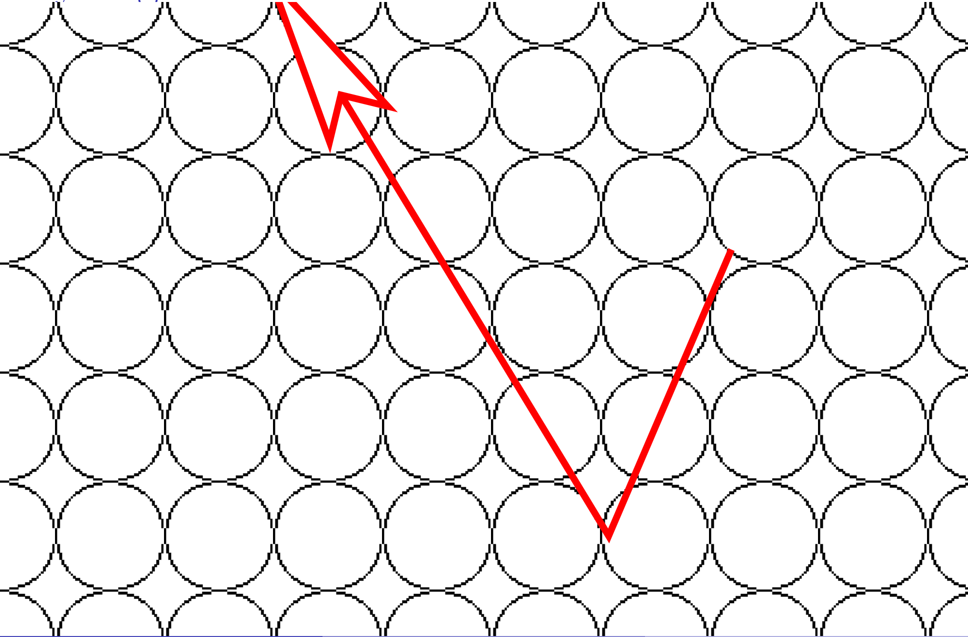


Modeling the surface layer

Equilibrium:

$$\Gamma_0 S_0 (1-\alpha)^2 = k_d \alpha^2 \quad \Rightarrow \quad \left(\frac{1-\alpha}{\alpha}\right)^2 = \frac{k_d}{\Gamma_0 S_0}$$

Fraction of occupied surface sites on the surface $= \alpha, \quad 0 \le \alpha \le 1$

Solve for $P(x)$: $\boxed{P(x) = [1 + W(z)]^2}$

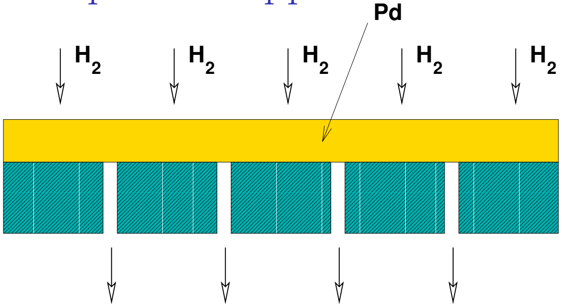
$$k_i \alpha (1-\beta) = k_o \beta (1-\alpha) \quad \Rightarrow \quad \frac{1-\alpha}{\alpha} = \frac{k_i}{k_o} \frac{1-\beta}{\beta}$$

Eliminate α: $$\frac{\beta}{1-\beta} = \frac{k_i}{k_o}\sqrt{\frac{\Gamma_0 S_0}{k_d}}$$

Numbers

tube radius	r	0.3175 cm
tube wall thickness	δ	0.0003 cm
flow rate	F	8330 cm^3/sec
inlet pressure	$P(0)$	4.08 atm
ambient pressure	ρ	1.36 atm
temperature	T	673 Kelvin
diffusivity	κ	$6.96\ 10^{-8}$ mol/(cm sec $\text{atm}^{1/2}$)
gas constant	R	cm^3 atm / (mol Kelvin)

Membrane on porous support



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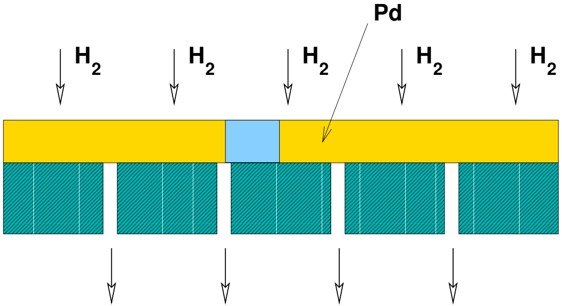

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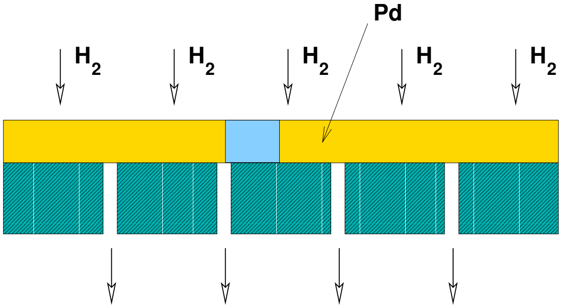

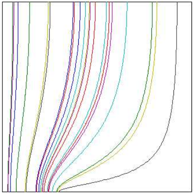

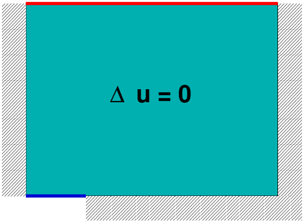

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