7-17

| 129. | 5.0. |

a. 
$$P = 10^2 \times 12 = 1200 \text{ W}$$

b.  $Q = 10^2 \times 5 = 500 \text{ Var}$ 

c.  $S = \sqrt{1200^2 + 500^2} = 1300 \text{ VA}$ 

d.  $COS B = 1200/1300 = 0.923$ 

7-18

2H

b. no reactive power is absorbed because the current is dc.

7-19

P: 1200, Col B: 0.8) :- S= 1200/0.8: 1500 VA.

Q:  $\sqrt{1500^2 - 1200^2} = 900 \text{ Var}$ 

Given

# Fuel Cells

### 

- General gasoline engine description
- General fuel cell description
- Compare

#### **\*** Cost

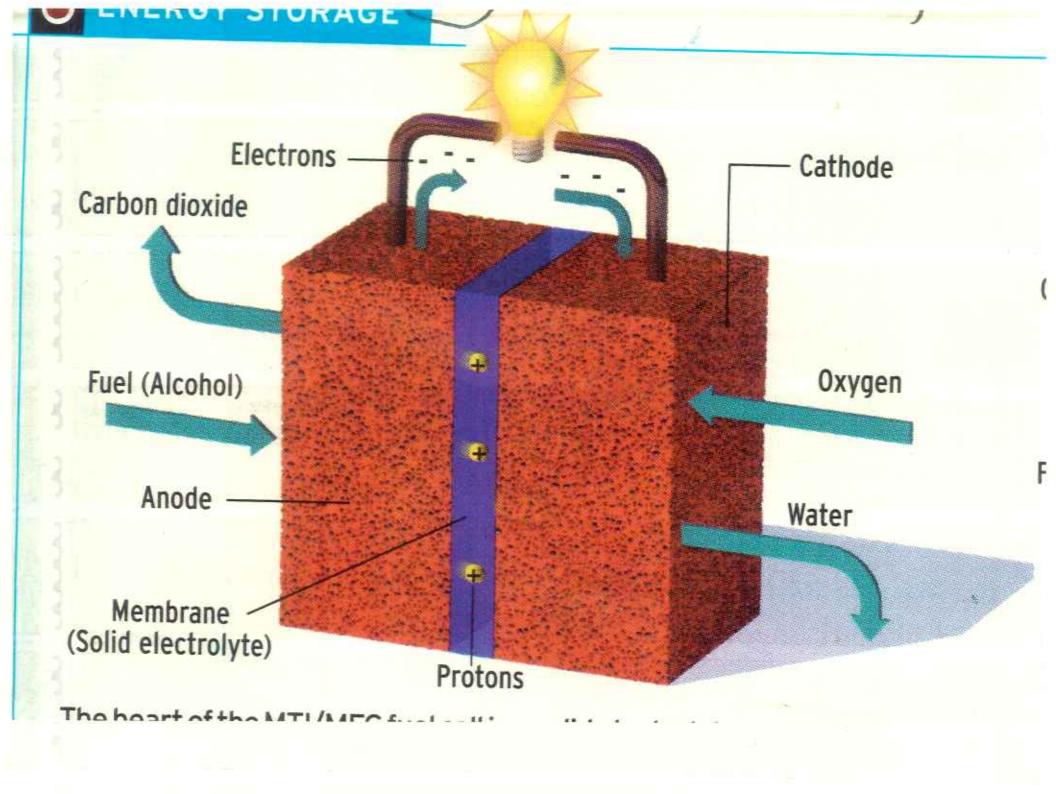
- Explore the different costs of fuel cells financially and environmentally
- Compare to gasoline engine costs

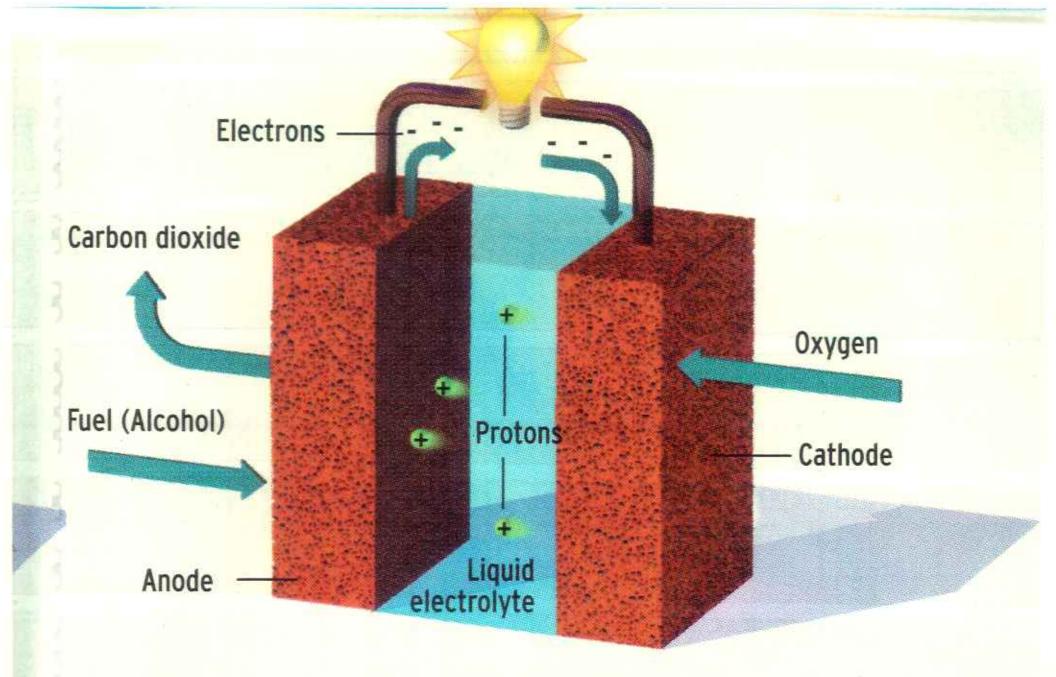
### \* Public Opinion

- What seems to be the general feeling of people towards fuel cells?
- Will they ever reach mass production?

# Fuel Cells

- **※** Safety
  - Hindenburg comparison
  - what happens if the hydrogen is ignited
  - health issues
- \* Future
  - time line for mainstream use
  - Are fuel cells inevitable





Designed from the get-go to be as inexpensive as possible, the Medis

#### Chapter 7 Part 1

- Review
  - o Laws
  - o Basics
  - o Reactive Load
- Power Factor
- Legal
  - o Fed/State Rules
  - o IEEE Rules
- · Conservation vs. Economics
- Extra Problems
- Fuel Cells