Lecture 26 iq23

- 1. Ohm's Law dissipated in (OL)
 - o OL-1: J=sigma E, E=rho J
 - o OL-2: V=IR
 - o Series: R=R1+R2+...
 - o Parallel: 1/R=1/R1+1/R2+ ...
- 2. Comments on selected homework in Ch20-h1.
 - o 002 A circuit with3 identical bulbs
 - o 008 A wire across a bulb
 - o 012 Power dissipated in series case vs in parallel case.

Dans Las (OL) V= EL, Current density: J= I J= OE i=nAuE, I=/9/i 2 J= 19/2 19/ MAE = 0E, 0=/9/MH Resistanty: F= I = PJ az: V=SI , V=(SL) I=RI, R=SL V=V,+1/2 V=IR2 = IR, + IRz. Risus = RI+RZ 1=1,+12 V V V2 上一大大之.

Example John-con I dentical bulbs coust R My Heoreston - R. Z. K. R. ? Re= 2 Interpretation: R=SA Double assa

A'-2A R'= SL - R
A' = JA. 2 Ry= R+R RR3 = R+R=3R Brightnes - Than P= (19) V = IV = IR. Compine brightness, P=I2R=(3 k)R-4 82 P2= (I) R = 9 R

What Laypons when you short a resistor? Given: Ris stepes strafe light bulb, What Leppins when R << R is connected to the two terminds Hist: I = I+I" VA-VB = IR=I"R! 2 I'= I'(R) So with the were corrected I'26. The bulk theres dark E-IR, -IR2=0, 00 IE=IR, +IR2 ? Pour delivered by the pathery stre para Commend by the but be Cont: Check IE 3 1,21 + 12R2 Agam: Power detived

RHS = I, E + I, E = (I,+I2) E = IE.