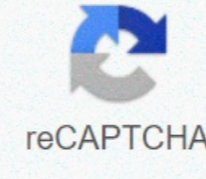




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## Conceptual physics chapter 21 assessment answers

1. (a) 2.75 kΩ, 75 kΩ, 12 Ω. (a) 786 Ω, 786 Ω value of 12(786 %Ω) (b) 20.3 Ω, 20.3 Ω size 12(20.6W, 29.6W) (c) 7.9 Ω. (a)  $R_s = R_1 + R_2 \Rightarrow R_s = R_1 R_1 \& \& R_2 R_2 = R_1 + R_2 \Rightarrow R = R_1 R_1 \& \& R_2 R_2$  alignn ( ( size 12(RSub { size 8(s) } = RSub { size 8(1) } + R r { size 8(2){1} } ) #drrarrow r rsub { size 8(s) } » r rsub { size 8(1) } left ( R r rsub { size 8(1) } & \& r rsub { size 8(2) } right ) ( ) ; 1R21Rp=1R1+1R2=R1+R2R1R2 size 12 ( ( (1) above (R r rsub { size 8(p) } ) { 2 } 1}{1} { 1 } } size 8(1) + R RSub { size 8(2) } above (R r rSub { size 8(1) } rSub { size 8(2) } ) ) ) ) ; to R= R = R 1 R 1 + R 2 = R 1 R 2 R 1 = R 2 R 1 & \& R 2 . R p = R 1 R 2 R 1 + R 2 = R 1 R 2 R 1 = R 2 R 1 & \& R 2 . ( alignn ( stack ( size 12 (rSub { size 8(p) } ) = { { RSub { size 1}{8}{2}{1} } } { { RSub { size 8(2) (1) } } } above (R r rsub { size 8(1) } ) ) ) ) ) ) } } ; j)=RSub { size 8(2) } to the right (R r rSub { size 8(1) } & \& RSub { size 8(2) } right . ) ) ; 13. (c) The serial strength shall be less than one of the resistors, but must be greater than any of the resistors. 18. 0.375 Ω, 0.375 Ω, 12 Ω. Yes, 23 A, 200 A, 10.0 V, 2.00 kW, 0.1000 Ω, 80.0 A, 4.0 V, 320 W, 0.1000 Ω, 80.0 A, 4.0 V, 320 W size 12 ( 0.1000 %Ω, 80.0A, 4.0V, 320W ) (25. (a) 0.400 Ω, 0.400 Ω size 12(0.400 Ω) (b) -0.120 V, -1.41 × 10<sup>-2</sup> Ω, -1.41 × 10<sup>-2</sup> Ω size 12( - 1.4110 rSup { size 8(-2) } } %Ω) (c) Negative end voltage; negative load resistance. (d) the assumption that such a cell could provide 8.50 A does not match its internal resistance. 31. -12 R 2 + emf 1 -12 r 1 +13 R 3 +13 r 2 -emf 2 = 0 -12 R 2 + emf 1 -12 r 1 +123 R 3 +13 r 2 . EMF 2 = 0 size 12 ( (underline { -1 rSub { size 8(2) } } R r rSub { size 8(3) } + emf r Add { size 8(1) } - ita I { 2}{1} } ) rSub { size 8(3){3}{1} & \& I t ; 1 & \& + ita I rSub { size 8(3) } rSub { size 8(2) } + emf rSub { size 8(2) } = 0 } ) ; { 35. I 3 = I 1 + I 2 I 3 = I 1 + I 2 size 12 ( ( rSub { size 8(3) } = ita I rSub { size 8(1) } + ita I rSub { size 8(2) } ) ) } ; 37. emf 2 -12 r 2 -12 R 2 +11 R 5 +11 r 1 - emf 1 +11 R 1 = 0 emf 2 -12 r 2 -12 R 2 +11 R 5 +11 r 1 - emf 1 +11 R 1 = 0 size 12 ( (underline { emf rSub { size 8(2) } } + I rSub { size 8(2) } ) rSub { size 8(2){2}{2} } + - it{5}{1}al I rSub { size 8(1) } rSub { size 8(1) } + - emf rSub { size 8(1) } + ita I rSub { size 8(1) } r rsub { size 8(1) } = 0 } ) ; { 39. (a) I1=4.75 A, I2=4.75 A size 12( I rSub { size 8(1) } = 4 cdot 75 A ) (b) I2 = -3.5 A, I3 = -3.5 A size 12( I rSub { size 8(2) } = - 3.5 A ) (c) I3 = 8.25 A, I3 = 8.25 A size 12( I rSub { size 8(3) } = 8.25 A ) (d) I1≠I2+I3, I1≠I2+I3 size 12( I rSub { size 8(1) } & \& I rSub { size 8(2) } + I rSub { size 8(3) } ) ) . Accepted streams violate the connection rule. 42. 30 μA, 30 μA size 12(30 μA) (c) 44.1 Ω, 98 k Ω, 98 k Ω size 12(1.25 × 10<sup>-4</sup> Ω, 1.25 × 10<sup>-4</sup> Ω size 12(1.2510 rSup { size 8(-4) } } %Ω) (c) 48. (a) 3.00 MΩ, 3.00 MΩ size 12(3.00 MΩ) (b) 3.00 MΩ, 3.00 MΩ size 12(3.00 MΩ) (c) 52.15 (five digits need to see the difference) 0.99990 (five digits need to be found). 0 μA, 15.0 μA size 12(15.0 mA) (c) 54. (a) 10.02 Ω, 10.02 Ω size 12(10.02 %Ω) (c) 0.9980 Ω, 12(10.20 × 10<sup>-12</sup>, 0 × 10<sup>-12</sup>, 0 × 10<sup>-12</sup>, 0 × 10<sup>-12</sup> % increase (e) is not significant. 56. (a) -66.7 Ω, -66.7 Ω size 12(-66.7 Ω) (c) It is not desirable that the IGG value of 12(I rSub { 8{ G } } ) ( is larger than I tot size 12( I rSub { size 8(tot) } ) ) ( see Figure 21.33). You cannot achieve full-scale deformation using a current less than the sensitivity of the galvanometer. 59. 1.56 k Ω, 56 k Ω size 12(1.56 k Ω, 56 k Ω) range 5.00 Ω to 5.00 k Ω range 5.00 Ω to 5.00 k Ω size 12 ( Range = 5. between 00 and 30.0 M Ω 4 . Range, between 00 and 30.0 M Ω 12 ( range 4.00 to 30.50 m Ω ) ( b ) 2.00 s, 69. (a) 1.25 kΩ, 1.25 kΩ size 12(1.73 × 10 to 2 s 1.73 × 10<sup>-2</sup> s size 12(1.33 × 10<sup>-3</sup> Ω, 3.33 × 10<sup>-3</sup> Ω size 12(3310 rSub { size 8(-3) } } %Ω) (c) 31.1 kΩ, 31.1 kΩ size 12(31.1 k Ω) (d) 3 Ω, 3 Ω size 12(3 Ω) (e) a combination Ω 20-Ω 20-Ω 10-Ω resistor; (c) 20 W in each 20-Ω resistor, 40 W in a 10-Ω resistor, 64 W in a 4-Ω resistor, a total of 144 W resistors, an output power of 144 W, yes, they are the same (law energy consumption); (d) 4 Ω and 3 Ω (a) and unchanged in part (b); (e) this will remain the same. 7.0.25 Ω, 0.50 Ω, no change in 9a, c, b, b, c, c, c, d, d, d, d, I1 + I3 = 12 E1 - I1R1 - I2R2 - I1r1 = 0; - E2 + I1R1 - I3R3 - I3r2 = 0 I1 = 8/15 A, I2 = 7/15 A and I3 = -1/15 A, I1 = 2/5 A, I2 = 3/5 A and I3 = 1/5 A, PE1 = 18/5 W and PR1 = 24/25 W, PR2 = 54/25 W, PR3 = 12/25 W. Yes, PE1 = PR1 + PR2 + PR3, R3, losses in chain 13(a) 20 mA, Figure 21.41, Figure 5.55; b) 24 mA, Figure 21.32, 2 s Paul G. Hewitt 12th Edition Paul G. Hewitt Hewitt Hewitt

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