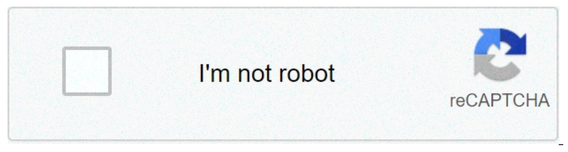


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RSBN- 13 978- 0-47 R-779S8-2 Printed in the United States of Amer'CA 10 9 8 7 6 S 4 3 2 | Printed and bound by a BIND-Rite graphic. Preface This manual solution is designed for use with the fundamentals of the textbook of physics, eighth edition, by David Halliday, Robert Resnick and Jearl Walker. Its primary PUQPoso is to show students how to solve such various problems provided at the ends of chapters in the text. Most of the solutions start from definitions or basic relations and derives the final equation. This technique highlights the fundamentals and at the same time gives students the opportunity to review the mathematical steps required to obtain a solution. The simple connection of numbers in equations derived â â in the text is avoided for the most part. We hope that students will learn to examine any assumptions that are made in the creation and solve every problem. The problems in this guide were selected by Jearl Walker. Their solutions are the author's responsibility alone. The author is extremely grateful to Geraldine Osnato, who supervised the project, and her assistant Capable of her Ay Ay Renross. For their help and encouragement, Special thanks to the good people of Wiley who viewed this manual through production. The author is particularly grateful for the dedicated work of Karen Christman, who was reading carefully and coffetta a previous version of this manual. It is also grateful for the encouragement and strong support of his wife, Mary Ellen Christman. J. Richard Christman Professor Emeritus IJ.S. Coast Guard Academy in New London, CT 06320 Contents Chapter .,, .. .... or. .. The Chapter? .I . . . . . Chapter 3. .4. . . . . 0.. . . . 10 captat 4. ... . . . . .I4 chapggr5. . . . . .21 Chapter 6. . . . . Chapter .28 or .37 ..... .... or Chapters. . . . . .42 Chapter 9. ..... 50 Chapter 10. . . . . 58 Chapter 11 ..... r ... ... 63 Chapter 12 .. .. .. .. .. .. .. ..71 Chapter 13 ... or .... .. ... ..77 Chapter 14 .... . . R. . . . . 15. Chapter 84. . . . . 89 or Chapter 16 . .. .... ... . ..95 17. Capgr. . . . . ,. 101 Chapter 18.. . . . . R. 109 Chapter 19. . ,. . . . . 115 CHEXPGR20. . . . . 122 Chapter2L ..... A Chapter I28 22 ... . . . . 134 Chapter 23 Chapter 24 Chapter 25 Chapter 26 Chapter 27 Chapter 28 Chapter 29 Chapter 30 Chapter 31 Chapter 32 Chapter 33 Chapter 34 Chapter 35 35 36 Chapter 37 Chapter 38 Chapter 39 Chapter 40 Chapter 4l Chapter 42 Chapter 43 Chapter 44.. .. ....140 O.O.O..146 ..... 154.. . . . . 159 ..... 162 .....170. . . . . .175. . . . . 193.. . . . , L9L ...., .. 199 .....205 .....213 .....221 .....229 .....235 .....239 ..... .243 .....247 ..... .251 ..... .254 .....260 .. ....264 Chapter L 3 Use data conversion factors. (a) Distance D, in auctions Ã¨ D - 4.0 furlongs (b) The distance in chains is 1YD - (0.9144mx106 pmlm) - 9.144 x 105 pm. - (4.0 furlongsx2ol. 168 m / furlong) 5.0292mf rod d - 4.lfurrongs - (4'0 furlongsx20l '168 m / furlong): 4 | Chains. 20.L7 mlchain -i (a) The circumference of a sphere of radius r is given by the 2R R. REBRETTEMENT R - (6.37 x 106mx10-TK ^ LM) should obtain 4.00 x 104 km. (b) The surface of a sphere is given by 4Tr2, so the surface of the earth is 4N (6.37 x 103k *) '(c) the volume of a sphere is given by (4NLRR3, then the volume of the earth Ã¨ g "13x6.37 x 103k *) 3 _ 1.08 x 1012 km3. T7 None of the watches advances exactly 24 hours over a period of 24 hours, but this is not the most important criterion to judge their quality To measure time intervals. What is important that the clock progresses with the same quantity in every 24-hour period. Reading the clock can then be easily adjusted to provide the correct interval. If the clock reading Skip from a period from 24 hours to another, you can't be speakers since it would be impossible to say what the coffee maker should be. The Followitg table provides coffee makers (in seconds) that must be applied to reading each watch for each period of 24 -h. The voices have been determined by subtracting the reading of the clock to the end of the 'Interval from reading the clock at the beginning. Chapter Sun. -Mon watch. Mon. -Tues. Tues. -We D. Marriage -s. Thu. -Fri. VenerÃ -sat ABCDE -16 -3 -58 +67 +70 -16 +5 -58 +67 +55 -15 -10 -S8 +67 +2 -17 +5 -S8 +67 +20 -15 +6 -58 + 67 +10 -15 -7 -58 +67 +10 clocks C and D are the most coherent. For each clock, the same coffee maker must be applied for each period. The CLOCK C coffee maker is lower than the coffee maker for the D clock, so we judge the clock C to be the best and watch D to be the next best. The coffee maker that must be applied to the watch to is in the interval for 15 years to 17 years. For watch B is the range from -5 s a * 10 s, for clock and is in the range from -70 s to -2s. After C and D, a has the smallest range of correction, B has the next smaller range, and is the largest range. From the best the worst, the ranking of the watches is C, D, A, B, E. 21 (a) Convert grams to kilograms and cubic centimeters to cubic meters: 1 g _ x 10- 'kg and 1cm3 - (1 X A-2 m) 3 RS- (1 and) (#) (,%): RX1O3kg (b) divide the mass (in kilograms) of water when it is taken (in seconds). The mass is the product of the volume of water and its density: m - (5700m3x1 x 103 kg / nt ') 5.70 x 106kg. The time is T - (10.0hx3600s / h) - 3.60 x 104 s, then the mass flow rate N is - M-5.70 x 106kg- T 3.60 x 104 s 1 58 kg / s "3s (a) The amount of fuel believes you have needs is (750 ml) L (gal 0mif): 18.8gal. This is actually the number of IJ.K. Galloni needs even if you believe it's the number of IJ .S. Galloni. (B) The ratio of UK Gallon to the US Gallon is (4.545963) L (3.785 3060L): 1.201. The number of American gallons actually needs is (18.8 IJ.K. GALX 1.201 US GALLU.K. GAL): 22.5 IJ.S. GAL. R 39 The volume of a wooden cable is V - (8 FTX 4 TT) (4 ft): i28FT3. Appendix D) to obtain V - I28ft3x0 .3048 ^ l ft) 3 - 3.62m3. Then a (l 13.62) cable - 0 .28 cable. 2 chapter i ijse l ft 1.0 m3 of upholstery 4t (a) the difference in the total amount between 73 tons of goods and 73 tonnes of displacement is (8 barrels Bulk / Goods) (73 Goods Ton) - barili Bulk / Spostamento Ton) (73 Displacementton): 73 BULK BULK. Ora cosÂ¬ l Banel Bulk - 0.141 5m3 - (0.! 41 5m3) (28.378US B Ushel): 4.01 5U.S. Bushel, 45 73barcei Bulk - (73 BARREL BULK) (4.01 5 U.S. U.S. Bulk) - 293 u.s. Beshel. (b) the difference in total amount between 73 tons register and 73 tons of displacement is (z} Bulk barrel / ton log) (7 3 tons of the register) - (7 barrel barrel / displacement) (73 Displacementton): 949 Barrel. Then G4: GBARREL BULK - (949 Bulk Bulk) (4.01 5U.S. Bushellbarcel Bulk): 3810U.S. Bushel. 57 (a) We want to convert PARSSEC into astronomical units. The distance between two points on a rang of radius R is D - 2R STN 0 12, where 0 is the angle subtended by the radtal lines to the points. See the figure on the right. Thus R - D, LZ SIN 0 12 and L PC - T ^ ",., - 2.06 x 105 AU, 2 SIN (I" 12) Where! "- (I13600)" - (2.78 x 10-4) "used. Finally 1 AU - (1 AU) 1Q.06 x 105 AU LPC): 4.9 x 10-U P ,. M-1x10-3km, 0,12 ATJ LMIN. (B) A light year is (1.86 x 10s MRLSXL.0 YX3 65.3 DALY) Q | HLD) (3600 s / h) - 5 .87 x 1012 Mt El AU: 92'9 X}, 9 ^ 6 TT ,; - L.5G X 1O- 'LY. J 5.87XLOT2MILLY L'J) / - "." 012 Chapter Chapter 2 1 (a) The average speed during any time interval Ã ¨ The movement during the interval divided for the duration of the interval:?) AV '- LR I LT, where LR is the movement and LT is the time interval. In this case the interval Total is LT: LT1 * LTZ- 1.33H + 0.67H: 2.00h. The V Average elocit is (80 km) NL 'AVG: 40K * / h. (2.0 h) (b) the average speed is the total distance traveled divided by time. The distance is the size of the total displacement, so the average speed (c) take the car passes the origin to R G0 Time T: 0. So its coordinated as a GM function) time is as shown as lines Solid on the chart 60 on the right. The average speed is the slope of the dotted line. - --Q- - - - - - 40 20 0.5 (a) (b) (c) in this case the total is 40 km fh. 1.0 1.5 t (h) 2.0 -5 substitute, intent, ti, 2.3, and4sintotheexpression r (t): 3T-4 * + #, where R isin meters and t is in seconds: r (is): (3 ^ lsxl s) - (mls2xl r) 2 + (l ^ 11311 s; 3 - 0 r (zs): (3mlsx2 s) - (4mls (2s) 2 + qmls '; 12 s)' - -2m R (3S): (3 ^ LSX3 S) - (4mls2x3 s) 2 + OMLR311: R13 - 0 (d) R (4S): (3MLSX4S) - (4mls2x4s) 2 + q ^ LR3; 1 + s; 3 ( e) the movement during an interval is the coordinate at the end of the interval less the coordinate at the beginning. For the interval from T - 0 to T-4 s, the movement is LR - R (4S) - TR ( 0) - i2m- 0 - + 12m. The movement is in the positive direction. 4 Chapter 2 (0 The average speed during an interval is defined as a divided for the duration of the interval: UAVS- L, I Lt. For The movement is LR - R (4 s) R (2 s) - I2M (-2 m) - lt: 4 s - 2 s: 2s. then lr l4m 'uavg: e- ^ -7m / s. ( D) The solid Curye on the right chart shows the R coordinated as a function of time. The slope of the dotted line is the average VelocityBetween T-2. 0s and T-4.0s. The movement on the interval range from T-2S to T-4S I4M and the Time Intal is R R2.O (m) 9.0 6.0 3.0 0.0 -3.0 19 If ur is the speed at the beginning of a time interval (at the time t) and u2 is the speed at the end (A TZ), then the average acceleration in the interval is given by EAV 'take H: 0, U1: 18 m / s, T2 - 2.4 s , and u2 aus -30 m / s - 18 m / s - -ZO ^ LR '. 2.4S The negative sign indicates that the acceleration is opposed to the original direction of the journey. 25 (a) Solve U-usa * A for T: T - (UO UO) f a. Replaced U-0.1 (3.0 x 108 ml): 3.0 x 07 ml s, U0: 0, and and ,: 9.8 ^ LR '. The result is T - 3.06 x 106 s. This is!, Zonths. (b) Evaluate R 4.6 x 1013 m. 27 SOLVEU2 -U3 + 2A (R-R0 Fora. Takffo: 0. Then A- (R'-RIL | 2r. Use'U0: 1.50x 105 ml, U - 5.70 x 106m / s, and R - 1.0 cm - 0,010 m. The Ã¨ A_ (5,70 x 106m / s) 2 - (1,50 x 105m / s) 2 - 1.62x l0r, l0r, . 2 (0.010 m) Take FRS- 0 and resolve R- UST * * OT 'for A: A_ 2 (R UST) F T2. Replacement R- 24.0m, - 56.0K * / h - 15.55 m / s and T - 2.00 s. The result is 2LZQ.0m- (15.55M1SX2.00S)]] 1 RR ^ R ^ & -33 (A) UG Chapter 2 5 The negative sign indicates that acceleration is in front of the direction of the car movement . The car is slowing down. (b) Currency U (30.3 km LMH). 45 (a) take the axis to be positive in the direction upwards and take T-0 and A - 0 at the point from which the key has been dropped. If H is the height from which it was dropped, then the soil is to: -h. Solve U2 - UZO + 2GH per H: U2 H- 2S - G.8 M / S2: (24mls) 2: 29.4m. 2 (9.8 m / s2) (to -u) 24mls -2.45s. T-9.8 ^ L12 UL Replacement UO: 0, 1): -24mls and g h- (b) solve 1): uo - gt for t: (c) t (s) 2 t (s) 2 0 a- 10 (-) - ZO -30 Acceleration strikes the ground: as shown on 0 u -10 (m / s) '' _20 -30 47 (a) at the highest level upwards, set chapter 2 point point The speed in U2 0 A-5 (-Is2) -10 _15 of the ball is instantly and solve for you $ USA-. zero. Take axis to be replaced G is constant up to -G.8 m / s2. Right. The key its graph is t (s) to: 50mtoget (b) will be in the ATR Aret solutions: 0 and T 2 (9.8 ^ LS2x50M) - 31 m / s. Up to A-0 again. Solve a: 2 G. rej ect the first e-uot t7t 'for t. Since accepts the second: -6.4s. The two .L _ 2UO 2 (31 m / s) T- - 9.8 ^ Lt '(C) A60 (m) 40 20 u40 (N / s) 20 0 _20 -40 0 A-5 (* / R' ) -10 _15 68 t (s) acceleration is constant while the ball is in flight: a, to the right. 49 (a) take the axis to be upwards and position the origin on the ground, under the balloon. Since the package has fallen, its initial speed is the same as the speed of the balloon, + LTM / s. The initial coordinate of the package is AO: 80 m; When he hits the soil his coordinate is zero. Solve A: uo + uot - * gt 'per t: t-uo + i where the positive solution was used. A negative value for T is not the time before the package has been abandoned. (b) Use 'T): 7) 0 - gt: l} mls - (9.8 mls2x5.4s) - -41 m / s. Its speed is 4IMF s. 51 The speed of the boat is given by U6 _ d lt, where d is the distance of the boat from the bridge when the key is fall (IZM) and and is the moment when the key takes down. To calculate T, put the; - I- LL R: J.-TD-C 9.8 ^ LT 'V (9.8 mls2) 2 g.g m / s2 t (s) Chapter 2 2

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