
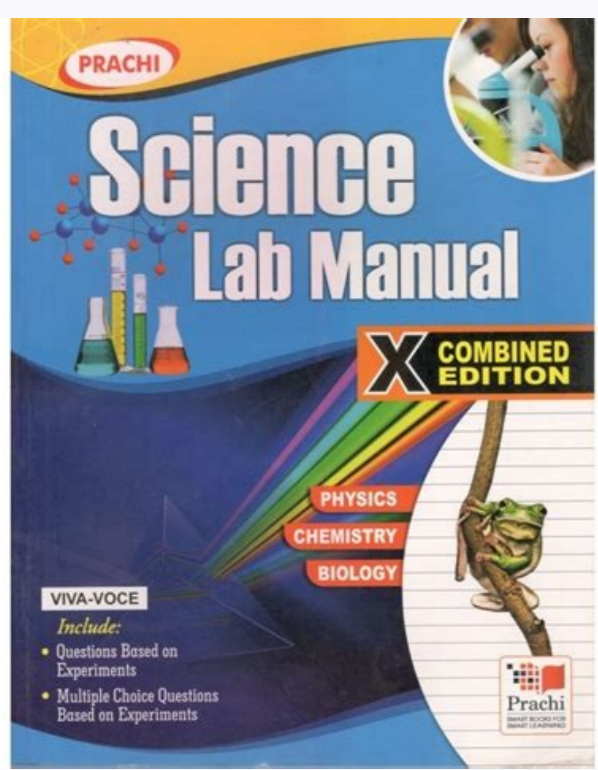


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**Most Widely Used Textbooks for AP Physics,  
US High Schools, 1987–2009**

Course:	% Using				
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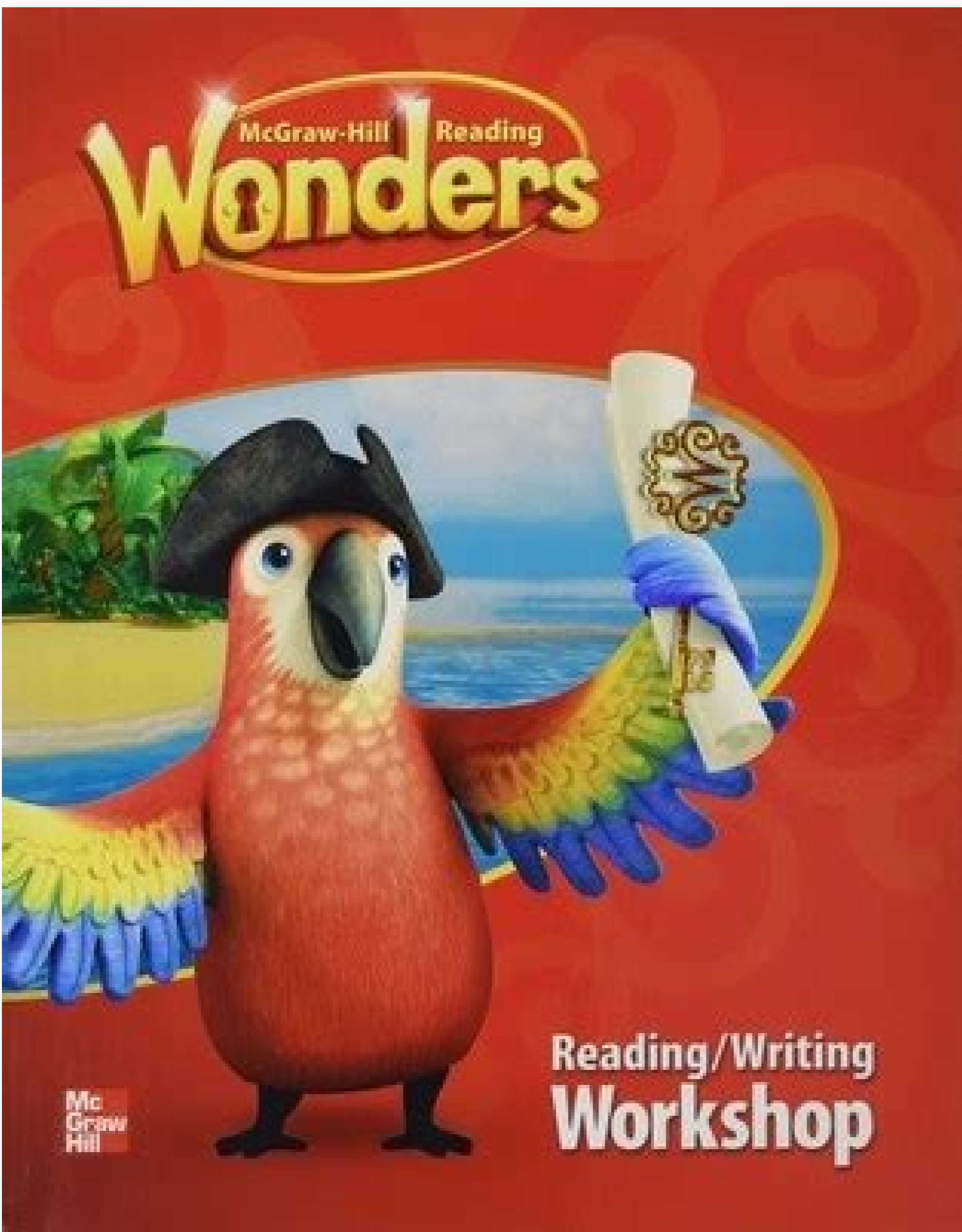
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17. In hydrogen atom, which of the following transitions produce a spectral line of maximum frequency?
- (a)  $2 \rightarrow 1$  (b)  $6 \rightarrow 2$   
(c)  $4 \rightarrow 3$  (d)  $5 \rightarrow 2$
18. In Millikan's experiment, an oil drop of mass  $4.9 \times 10^{-14}$  kg is balanced by applying a potential difference of 2 kV between the two plates which are 2 mm apart. The charge of the drop is
- (a)  $1.96 \times 10^{-18}$  C (b)  $1.602 \times 10^{-19}$  C  
(c) 12 C (d)  $4.9 \times 10^{-19}$  C
19. If the potential difference between the cathode and the target of Coolidge tube is  $1.24 \times 10^5$  V, then the minimum wavelength of continuous x-rays is
- (a) 10 Å (b) 1 Å  
(c) 0.1 Å (d) 0.01 Å
20. The photoelectric effect can be explained on the basis of
- (a) corpuscular theory (b) wave theory  
(c) electromagnetic theory (d) quantum theory
21. The wavelength of the matter wave is independent of
- (a) mass (b) velocity  
(c) momentum (d) charge
22. The time taken by the radioactive element to reduce to  $1/e$  times is
- (a) half life (b) mean life  
(c) half life/2 (d) twice the mean life
23. The ionisation power is maximum for
- (a) neutrons (b) alpha particles  
(c) gamma rays (d) beta particles
24. When  ${}^9_3\text{B}^{10}$  is bombarded with neutron and  $\alpha$ -particle is emitted, the residual nucleus is
- (a)  ${}^7_3\text{Li}^7$  (b)  ${}^7_3\text{Li}^8$   
(c)  ${}^7_3\text{Li}^9$  (d)  ${}^7_2\text{He}^4$
25. In a nuclear reactor cadmium rods are used to
- (a) speed up neutrons (b) slow down neutrons  
(c) absorb neutrons (d) remove heat



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fo erutaN eHT :derevoC scipoT .esrevinu eht fo erurtcurts eht ro scinahcem mutnauq gnyiduts era uoy gnol erofeb dna smota fo slevel ygrene ot dna ytilaud elcitrapp evaw uoy dael dluc nrut ni hcihw sewav citengamortcele ot uoy dael dluc hcihw ÁÁÁé?eulb yks eht si yhWÁÁÁé ekil noitseuq elpmis a gniksa htiw trats nac uoY .tmetnoc latnemelppus ot sknil tenretni htiw gnola ,segami dna scihparg detartsulli ylecin evah lla esehT .elpmaxe rof gnikatredu scisyhp a si llab a worht ro hctac ot woh gninrael .rehto hcae ot etaler dna krow yeht woh dnatsredu ot troffe na ni su dnuora sgnihT eht yduts ew nrob era ew yad eht morF .esu ew egaugnal eht ylerem si hcihw ,scitamehtam dna selur elpmis hguorht sgnihT ebircsed ot tpmetta eW .saera dna scipot ynam etartsnomed dna hcae taht skoob txet ecneicS lacisyhP dna scisyhp loohcs hghj nettirw llew dna tnellexe 01 era ereH .esruoc scisyhp enilno elbaliava yleerf siht dnaÁ Á).S.H ÁÁÁé 3 edarG( stinU dna ,snosseL ,seitvitTA gnireenignE dna scisyhp 002 revO ta tuo kcehc osla ,slairetam noitacude detaler roF .suluelac ton tub ,dedeen si yrtemonogirt emos dna arbegla fo egdelwonK .ecneics rehto yna naht scisyhp od ot deifilauq erom era ew esnes a ni .su dnuora dlrow eht fo yduts eht si scisyhp .efil yadyreve ruoy ni deciton ydaerla evah uoy sgnihT ot nrael uoy gnihytreve etaler ot si scisyhp ot hcaorppa tseb eht .smelborp noitacilppa scisyhp lanoidart rof seitnutroppe ecitcarp dna ,snoitalumis dna sbal ot sknil ,snoitseuq tpecnoc ,sevitcejbo gninrael edulcni yeht .stpecnoc scisyhp latnemadnuf psarg stneduts pleh ot selpmaxe dlrow-laer htiw hcae evoba stxet xatSnepO ralmis evif eht )bm21 ,spp 136( xatSnepO ,1 scisyhp egelloC )bm33 ,spp 496,1( xatSnepO ,sesruoC PA loohcS hghj rof scisyhp egelloC )bm41 ,spp 507( xatSnepO ,scisyhp loohcS hghj )bm4.23 ,spp 257,3( srewsna detceles htiw ,xatSnepO ,sesruoC PA rof scisyhp egelloC )bm ,spp 968( srewsna detceles htiw ,xatSnepO ,1 scisyhp PA ~á çÁ eroloc 21 odarG ~á çÁ relppoD otteffe 21 odarG ~á çÁ aznetoF e aigreNE ,orovaL 21 odarG - 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gninrael evol- ecnanoseR snoitariBv mutnemoM ralugna fo noitavresnoC mutnemoM fo noitavresnoC ygrene lacinahcem fo refsart eht :kroW ooz ygrene eht gnyilpmpis ygrene fo noitavresnoC ytivarG noitom ralucric noitom dna strotceV strotceV snoisnemid eerht ni swal sÁÁÁÁenotweN secrefo fo sisylana noitom dna ecroF liaf eerf dna noitarelec~çÁ noitom ovitater dna yticoleV noitamise dna gnilasC weiver dna noitcudortni )bm3.8 ,spp 185( koobxeT scinahceM sesicrexe ot snoitulos yrtsudni lacimehc eht snoitcaer lacimehcortcele rettam fo seitreporp dna anemonehp laciTpO scimanydortcele stiucric cirtcole sesab dna sdicA noitcaer fo tnetXE dna etaR tceffe relppoD rewoP dna ygrene ,kroW selucelom cinagrO 02 eslupmi dna mutnemoM ecneics rof sllkS )bm9.9 ,spp 145( sesicrexe ot snoitulos htiw ,aluyaiS ,21 edarG secneicS lacisyhp rettAM fo erutaN evaW stnorfevaw D3 dna D2 roloC tceffe relppoD rewoP dna ygreNE ,kroW rettAM fo seitreporP lacinahceM snoisnemid oWT ni noitom yrtsudni lacimehc eht snoitcaer lacimehcortcele setaR noitcaer selucelomorcaM cinagrO seluceloM cinagrO )bm3 ,spp 693( 21 edarG ,koobxeT ecneicS lacisyhp 21 edarG ÁÁÁé rettAM fo seitreporP dna anemonehp laciTpO 21 edarG ÁÁÁé noitaidar ME 21

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