## 

## gas Publictw，will confer a favor by mentionit <br> gates ah－ilichtrated edition．

 ioht $u^{m}$ ，the probletas of our future existence lealdy ：＂a profounder analysis of what we do wrad oftea driving inquiry beyoid renson is which has produted $M_{\text {rs．Phelpis＇}}$ truly curirkble book，and which accounts for itsife circulation．The humanitarian and realistic a presents with such y uiet glow of feeling and such delicate pathos，
have their just place to any comp．ete conception are taught will take the plice of these Martio uthers lelter oo his children，an immense as well as the closing chapter of Revelation；are all as the closag chapter of Revelation；are $f$ orthodoxy to her views．The offence she hats iven，is by the sport she bas made of those more
piritual conceptions of the beavebly world，which have horne up myridds of caibts under trials＇ reat as those whicli crusked the heroine of the tory，which in fact muke up the greater half of
the truth about heaven，and which are among the things spiritually dizefned；which eye hath pot seen，nor car heard，neitlier have thegy enter： into the heart of man－the thitige which God arth prepared for them that love Nim．The ion that heaver is little more than ma－．jargor cflection of the material good of this life．Th elvice it has done is thato owakening people
to the high probubtity that it includes such a unsuits and joss r＂that it is a place of defnite ppiness，as well as 1 limitiess splandur and glory The edition befores is is ee egantly boupd in a with red lines ；the paper is thick and creamy ad the illustrations of the story（not of hescen with piano－players as well as harpery）are finely
 by Lippincolti \＆Co．
Lady Geraldneres Courtehip has long been huvorite with the many madnirers of Mrs．Brown－
ing＇s poetiy，and an illutrated holiday edition ing＇s poetiy，and an illustratcd holiday edition
rou tho house of Chas．Scribuer \＆Co．is cspe filly welcome．The mecbanical execution of the berk is fualteses．The green and gold bind－ If con．biutug to make it a beautiful gift．The illustratious by Mesprs．Hennesey iand Liuton are abuudunt，and dieplay artistice invention and fir the most paitt，fille drawing and engraving． from New England，while thee gtory＇is parelyiand charac eristically one of Old England．The first prrtrit of the heraiae is 80 accurate that it is weirly Nurman，but from that she is toned down
wuil tuwards the close she steps out＂fom＂the Hudnw of the curtains＂a veritable New Eng tudy of he schoornare．A arer have prevented such an artistic error $\mathrm{Pp}_{\mathrm{p}} 74$ ${ }_{50}^{50} 00$
Another fine holiduy bouk from the press of Nelsen and Sone，is the Mysteries of rime
Oefan，frou the Fronch of Arthur Oetav， the same transiutor，enbel ished with one hun Yieil．The ere deep nod ite treasures of lite Xeil．The great deep and ite treasures of lite weena of the ccean are well described．The sub－ ct is discussed with the thorogghess of a
chelar and the vivacity of a Frenchinan，though not with the luvish genius whick Michelet has spent upon the Brud．This，like the other of this use as of real intereest to all clases，encyelopedid in the range of its iuformation and thoroughly popular in its style．The translator＇s addition
wre judiciuus．The illustrations－lating some chuical errors which a eailor＇s ese would de thet，ure real＂light－bringers＂to the reader．
rp． 470 ． A＂Member of the New York Bur，＂a Pres yterian，it is said，is the anthor of a little wor al the two leading theological controversies of
he day．In the first part，ealled Trie Divine human in the Incarnate and Whitien view of the plenary inspiration and entire acou r：cy of the Word of God．The manin line of ar cument is，that there is a human or fullible ele all through the Scriptures．But error，falsehood and darkness are not human，
In so fur as the
Bible is a thoroughly human book，we have as much right to infer its accuraoy We must pefer Tuyler Lewis＇s fiue treatise＇on 11e same topic．The second part，containing Some Thoggts on the Atonement older than ＂ue Cuesds is devoted to a revien of the＂mer－
＂antile theory＂of the Atonement，and of the thenry of an essential antagouism between the
Bivine Attributes of Justice and Mercy．The thumb is not written in the reverent spirit that we wuch to cast light on 敌等 suthieets it discusse Eintolph of New York，Publisher．PP． 201.
 eristic sermons of his are prefaced by o sketch of his life from the pen of Dr．Sprague，and his character frou thal of Rev．Henry Neill
He must have been a most desirable friend and He must have been a most desirable friend and
pastor，and we trust that these sermons and let ters will widen the circle of those who mourn the may surely sny with Howe，－＂Hoẅ grand the resources of God，when He who had fashioned ould afford so quickly intruateat for ${ }^{H}$ is service ermon ad thackly to lay it aside？＇The firs natie－Tie Marriage of thei Kinges Son－ does not，we think，distinguish clearly between Che Scriptaral doctrine of the marriage of the sponsal of individual soulds＇t to Christ，a file which underlies all the dionastic follies of tha corrupt Oharcil．Pp 142．＂Stime publisher．
Preedixterian bdatol
Alypus of TAaATE，by Mrs：Webb，if story of the struggles and martyrdons that at
teided the progress of the truthin Egyt in the fourth century．Tagaste，near Carthage，＇was the birth place of Augustine，and Alypitis is re presented als having received bis early impres orestory is Con sufficiently stirring and sensatior ral to pleajest the poptar taste＇；＇while its＇ruling parposes＇is＇to giv faithfat pictire of the characters，trials，do Chiristians of that age and country．This＇it doe in effective style and in a skilfully told and pow orful stiry：Presbyitehian Bosido 16mo．pp 329，illustrated．$\$ 1.25$
One of the handsomest and most valuable is het pubio＇：From Datw to Dark in It to narrate the failure of the Reformation of the sistéeith cen ury in that country，and is in the form of àinh rative based uppin＂historical facts：＇To little is drama ceinturies ago，not to rise till our own day．In ohis edinita，tspography and binding are of suppe Large 16dio．pp． 538 ．
Golden Hucis is a stirring story of the fam－ twenty rears ago，anid of prevailed in treland deeds that were hever wanting amid the dart seenes of suffering and agratian outrage which gave tone
Tue Manuscript Man，by the same author is an ingenious tale of quite another class o of Pro estantism among the tomish tenants of a estate，by the medium of the Irish New Testa－ ment．and through the exemplary lives of the
proprietor and his fawily pp 246，illustratid． 85 c Rivers of Water in a Dry Phate，is the erings in South A frica，a story that delighte and instructed the youth of multitudes of the mid de aged，and that promises to remain as fresh
and charming in renerations to come．pp． 294 and charming in
illustrated．$\$ 1.00$ ．
Prof．Blaokburn，of North West Theological eminary，has added to his hist of historical The Life or Admial Coligny，With the life of this great ：man is connected a history of the rise of the huguenots，and properly，as upon
him almost the eutire bistory hangs．He was the first and most prominent victim of St．Bar laity of the truly religious Huguenots．He was more fully in correspoudenoe with Culvin than he may well occupy the efntral position and give name to such an historicil work．The from 1512 to 1572 ．Romanists，extreme and moderate，Protestants and sceptics，have been consulted as authorities．All agree as to the
lofty obaracter of the Admiral．What should give greater interest to his name，in this country are the early attempts which Coligny made to
found Protestant colonies in＂America．Th story is ably told，the style is viborous，and th work，as，probibly the only original life of the Admiral in the English language deserves vols．，12mo $\$ 3.75$
We can scarcely do more than mention the numerous recent issues of the Presish give to
Boakd．Kazdoo，the Hindos girl，will give poung，ander the darkness of heathenism．Th Straw B yoren Mase is a story of quie usefuluess in humble life．Cifind or tre Rock is an exciting tale of adventure in the times of the wars of Napoleon，translated from the Ger man of Dr．Barth．True Rrones expoes th abundance of his possessions．Tue Baiy Heart is a moving picture of enduragce and nge：against adrersity．Conncha＇ children who liave been well or ill brought up Many other sinaller yolumes we can but name as Loves Labor，A little More，Grace
Marland，abel Clabik，each 18iono，of 200
ages or more，some of them containing a nu
er of short stories，and all illustrated．
They have，also，a smaller book，by Dr．W． They have，also，a smaller boovk，by Dr．W．S．
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## otheit suvieniles．

Lost in the＇Junale，by the celebrated Af rican Exp＇orer，Du Challiut，is an adtairable
javenile，fresh and graphie，introducing the jovenile，fresh and graphic，introducing the
yotiog reader to the marvellous seeneies witiessed by the writer anfong the savage med and animals pure mörals＇and réligiotas tone of Dia Chaill appear＇as＇ plain 应 as lifis zeat in exploration and his power in déscription．Handsomely bound and illustrated with mañ̀ fine en pp：260．\＄1．75：Harper ：Bros，N：Y！Fo sale by J．B．Lippincott \＆Co．
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acter in a poor boy over all the adyantages wealth without it．There is some stiffness and artificial gloss in the style，but it is not without side of 16 mo pp． 280 ．Handsomely printed，bound and illustrated．
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child can do，Home Missionary work，without child can do，iliome Missionary work，withou
going very far from home．16mo pp：181．

## ghtsimuaty tems：

There is an increasiog siriti of inquiry
ont the Motamulduns of the Nestorian dis． ict in Persia：
Cone of the American Boards Missionarie Writes from Madura，August 11，advising a a
transfer of an adjacent field which has been occupied thy them，to the S．P．G．，（the，High Suid with Islunds．），This Society is lookio＇s
vefy sharply after fields already oceupied．Are vefy sharply after fields already＇ocupied．Are
there no＂regions beyond，＂in héathenism？
－Two Missionities of the Lotdon Society going from rientsin to shantuag，crina；were
aitaked by robers and beaten；and one of them
wastdrowned by the；robbers．Mr．Chapin，of wastdrowned by the robbers．Mr．Chapin，of Mt might have taken place almiost anywhere
My own iampession is，ihat missionaries in tbe
interior of China will be safer than in the inte interior of China，
rior of Tuikey＂．
－The Presbyterian Publication Committee ave donated one hundred copies of the © Ten－
escean in Persia，for istribution among mis． sioparies of the American
will be sent to each station．
－The Receipts of the American Board in ctober were $\$: 3,656,82$, including $\$ 74475$ in

－The foreign work of the chirches actiog
hrough the American Board reaches，directl or indireetly，a poppulation three，times as large as that of the United States，which is soltely
dipendent upon then，for the first elements of

## －Over fo

－Over forty thousan dollars in gold were
given to Chistian objects，the past year，fy the
 cause of such werality，the American Board
bare been able to reduce the apprapriations to
those missions by some ten thousand dollurs， cot tyithitanding the constanty expaiding nature
of the work，and to transfer this amount tö ther fields．For a
－It is estimated ii the December number o members in Ameriea eontribute to the treasury of
the A mericun Board．It is also oomputed that one cent per day from each of this nuwber would bring an inc
$\$ 1,689,950$ ．
Forty two years ago Christian merchan
of Boston，residing in Brookline，Mass，and of Boston，residing ho Brookine，Mass，and
ane．Cristians who were in sympaty w with
hin，assembled at his house，to pray for the conversion of the worid At his surgestion the
conoeys collec＇ed at these wis sionary renions
wete deroted to the evangelization of the wete devoted to the evangelization of the
Japanese．True，they had their gates closed，
rudely and fiercely，agaigst the Cbristian world； rudely and fercely．agaipist the Christian world
but the Iod could open them，whenever the at the loid could open them，whenerer the
＂set time＂should come．The merchant left
Brookline io 1829 ，and sailed for Eirrope，whenct he did＇out permaniently return till 18 ． 4 ，but the
ladies＇sewiug circle，formed in connection with ladies＇sewing circle，formed in connection with
those monthly concerts，was continued，nutwith standing the persistent policy of isolation adopted
the Japanese rovernmet．This association by the Japanese goverament．This association
kett alive，during many years，the interest
which had arisen so unexpectedly，and muire Whith had arisen so unex peetedy，and mure
than six hundred dolatrs were，in the end，paid
into the treasury of the Board．The Chrietian
 Ropes，Erq－has gone to his rest in a good old
age．And now a son of a dear friend of his has mbarked，the first missionary of the A merician Hoard，to the nation in which he took so deep a
interest．Still wore．The Prudential Conmit interest．
tée liave place to to the credit of the new iuission
sum equal to the sums which have been＇con asum equal to the suwis whith have beeri＂con
ributed＂for Japan，＂．with iaterest thereon． －A fierce persecution has been raging ágainst swall compang oke out afresh recently，when
feeta，Syria．It brote Lwenty or thirty of these Protestants were influ
enced by threat and bribesto join in a grea
paride of the enemies of their religion．Th


## suintifit Ltents

## SPECTRUM ANALISIS．

## In 1859，two German＂chemists，＇Bunsen and

 Kirchout，working togetier，diso vered that eachchemical element，when burning in in flame，emits
a．light which，when passed through a prismin and furming a specirum，has lines or marks peculiar to
itself．Theselines mitght be tikēn，therefore，as new properties of the melements，and could be bed ne to
distinguish and detect them．It is only in the condition of！vapor that the elements produce
their peculiar lioes．If platinum，wire，a solid，
be heated to whiteness，and its，light，passed be heated to whiteness，and its light passed
through a prism，it gives a oontiuous spec
trum；but if platinum be vaborized by the
 and there is a stries of bright lines separated by
varying intervals of dark ness．If zinc be val
porized，it gives beaitifill bands of red and blue， porized，it gives beaititul bands of red and blue
While vapor of sodium gives trio fine jellow lines
situated situated close．to each other．－A inew and mos
delicate mode of chemicial analys．was thus
found，and the very first reeult obtaiued by it wa found，and the very first result obtaiued by it wa
the disoovery of sereral hitherto unknown chemi
cal elements．Pruf Bunsen，in examining thie Cal elements．Prut Bussen，in examining the
ash teft after the evaporation of some mineral
water， water，discovered lines which did not appear to
heloug to any known element．He then boiled
down 44 tuns of this water and from the mine－ down 44 tuns of this water，and from the mine
ral residue he extracted two new metals resemb－ because it，gare a dark red line，and the other
C＇essium，from its：producing a bluish－gray line： The lines produced by the burning vapors o che elements are variousy colured；but always
bright，wih dark iuter．paces；but in the spee bright，with dark interppaces；but in the spec
trum of the sun and stars this is exactly reversed．
the lines being dark and the spaces bright Kirchof being dark and the spaces bright．
Kindained this ba a uifully on the prin－ ciple of absorption，which we will try to illus
trate．If we go into a g＇ass sore with a violin
and prodace a tone by drawing the bow across and prodace a tone by drawing the bow across
oiue of the strings，certain of the glass vessels
rill be set singiug；they will catoth up and give rill be set singiug；they will catct up and give
out the same musical note which proceeds from the violin．But only those versels will do this
hich ure cupabe of vibrating in unison with he striug，or of giving out the same note that they receive．In this case the sound of the string
is said to be «bsorled by the vessels which are
capable of emitting only vibrations of the esanie capable of emithing only vibrations of he same
rate．Supposing now we．have a candle flame
containing sodium vapor，which gives the brieht containing sodium vapor，which gives the bright
yellow linees in its spectrum．If then we take an
eleetric light，whith is of course very muoh
brighter，aud coritaining ailso sodiuni vapor，and brighter，aud containing ailso sodiun rapor，and
let it：shine through the candle－fawe，the brieht yellow lines do not change their position，but
they instantly turn dark．The explanation i，
that the candle－flame absorbed the same rays tha it gave out－that is，it stopped the bright sodiun
rays of the elecoric liglt；and，leting all the otliers pass，the contrast becoues so great in the spectivu
that the lines of absorption appear as daul lines Now in the sun it is supposed that there are two
sources of light，an external photosphere，and an sources of light，an exterial photosphere，and an
inner nucleus of intenser brightiness，so that the
intenser light from the inver source underges intenser light from the inger soirce undergoes
absorption as it passes through the outer sphere，
and hence the solar lines appear dark．A beau and hence the solar lines appear dark．A beau
iful verification of this priuciple is furnifhed by
i discovery of Lock yer and Jausen that from the very outer edge of che sun，and consequently
where we do not get the rays from the nucleus，
the stara spectruus gives bright tines，this outer

 an moral eertany that eortain elements e exist

 fiond exactly to ovrersenond to asstem of dark







 | hydragen |
| :--- |
| But the | But the uses of spectrum analysis are not con－

fined to origina chemical research；it has prac－
tical applicatiocs which should not pass un－ tical applications which should not pass un
noticed．In the Bessemer process of converting
cast－iron into steel it is of cast－iron into steel it is of great value．Cast iron
differs from steel in containing more carbon and is made into steel by buraing out the carbon by means of a blast of atmospheric air sent through
the white hot，molten mass：Five iron，wy this propess，mass．Five tuns of cast－
minutes iuto cast steel．The saceess of twenty
me operation depeadd upon the blast beisg stopped
at the right monient，for if diseontinued too soon the mass becomes too viscid to be poured
out，or if continued too long it crumbles under the hammer．By the aid of the spectroscope the
appearaneé and disappearance of the liues in the appearance and disappearance of the lives in the
flame afford an exart index to the progress of the combustion．This instrunent＇is also proving a
valuable ally to juitice in its evidence in criminal cases．It detects with unerring certainty even
the one thousandth part of a graiu of the red the one thousandth part of a gha
coloring matter of a blood stain．

A valuable diseovery was accidentally made by a workman in France，who，some little time ago，in varnishing various pieces of metal，scorch－
od himeself most dread fully．In his agony，and
without an instants．s reflection，he thrust his in－ witbout an instaut＇s reflection，he thrust his in－ ment．He repeated the operration for a day or
wo，and in a short time ras perfectly oured． The discovery atiratected eonsiderable attention in
the neighborhood．He was sept for to Metz to the neighborhood．He was sept．for to Metz to
cure s．sme mien injured by a powder explosion；
and，being suceessful，he was directed to apply his
cure to patients in the hospitals of Paris，where and，being successful，he was directed to apply his
cure to patients in the hospitals of Paris，where
his treatenent for burns，ras soon fouad to be

## THE NEW YORE TIMES．




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