can only be is concretion of brick-material more or less ykilfully packed. and depending in a greater or less degrec, according to the bedl given to the brieks, our fragnuents of hricka, jupon the consistence of the settimy material. But setting material, by whaleser name known, musi be plastic to be workel, and the power of a cons cretion of brick and mortar or cament to renist pressure can hardly be wreater than that of the setting material, which being plustic, is in a sielding condition, alkhough it terrec equal to that of the harder material which it in intended to combine.
Worp, in the cake in question, the basement: wall and the perlest ds upron it are built of bricke set in mortar, and honded in the usual manner, and the weight of the superstructure came upon the pedextals and noon the walls at right angles to the levis of the luricks in the work: that is to sar, the work was in the strongent condition, mid it ree ivel the pres. sure in the manner which exposed it in the least degree lo derangement, so long as the preaswire remained nteatly and direet. Llit the column were round liodice, anol the bricks used in luilding them were not laid the or on their hroad lechr, but on edpe on their narrow siden, and they were cut and packed to proluce the requinel form, invahving the uss of many siatured fragments in every course, to fill the body nith sulid matter. This prohesive properties of the setting inaterial to coinbire the fragrnents, and ithe stength of the ntructure was, consequently, no greater than That which the cement, used asavetting material had attained ly induration. llut it is admitted on ull hauls, that cemen, that is to say, cement of the kind used in the columns which fell. requires time to indurate fully, or to attain a degree of bariness in any degree approarhing to that of good bricks. in which state alone it could hold togelier the lricks and fragments of brick , which the absence of bond required it to hold tugether with any think like the effeet uf honded brickwork.
There are, moreover, circunstancen in the composition of the structure which make it necesaary to inquire, whether the unequal pressure of the upper part of the entablature and
of the attic wall over the columns, may not of the attic wall over the columns, may" not
have induced compression of the setting masterial in the joints of the work in any part? The weight of the superstructure fell sornewhat unduly upon the inner or southern row of the colutuss ; and if the juints of the work in the columns hat been compressible, the sugerstructure would have taken a leaning south. ward, which, if it bad taken phace, must have been observed, as the inen were still at work upon it. Roman cemonl-tice cement in yuestion-setw, however, in a very slaor: time; and all the vement in the columns muse have taken a wet rey long before the attic-wall was raised, and having once sef, it is no longer plastic. and therefore not compressible but by crushigg, which whilly dentroys it; and is the cement be crushed, the work depending upon it necessa. rity faile. Nor can it le sunposed that the mortar in the pectestals rielded unequally; if it sielderl at all; for although the
weight cance upan it more by the southern than by the northern row of columns, the diffierence could nat have lee n so great as to act unevtually upon the inpriar in the pertextals: if, indeed, the superstructure had lieen heary at all in proportion to the purwer of stpphorting weight, which the periestals possessed, steing that they were louitt of lirick work in its strongext form. -that is to say, with the brieks on their becles, and truly boniled.
And it is alan necessany to inquire whether, haring regard to the weight of the superstructure, and to the assumed pooter of resisting jrensure of the eubstructure, und particularl; of the columns. the columns nould have givern Way under the dead weight put upon thema This does not appear probable, having regard to the goond quality of the materials used; and to the undoubted skill and ta t of the workmen empluyed, and to the time that had clapsed
from the compuletion of the columns to des from the completion of the coluinns to the fall of the structurs, for alithough conliplete
iaduration of the conent could nut bare iaduration of the cernent could nut hate
taken place, the ordinary proctice of buibdiag rould have justified the proceeding with the work. It is, therefore, my confident
belief that if the cement had been fully indurated, the columnn would liave carried afely all the weight which they were required to carty, and, under all contingencies to which they could have been exposed; nor is it likely that the columns, as they were, would break up under a mercly deal weight wuch as that of entablature and nitic wall, but an they certainly did break, it seems very certain that the movement of the scaffolt, induced by the exertione of the men who were engaged in increaning the heinht of its already lofty poles, Wgether with that derived from the men who were at work upon itw stages, gave the impulse which indued the fall.

Fehruary i. |Eve.

## THE HBACTICE OF ARTISTS OF THE

 MIDDLE AGES.
## futsory on theormilus. .

IS Pecumbedering the writings of the early fatherw of the church. of of the more hatuble professon of the Christian meligion, who. priests themselves. worked in silence and in prayer for the nilvancetseat of the true fwith, which had not only surrived the war with baranism. Jout had issued triumphantly from the conflict. one etninent fact is to be olserved : the alliance of religion with science and the arts was confirned, and these were fostered to an extent ixfore unattainable; for the flood. gates which had hitherto confined knowledge within a mystic broundare had been opened. and while admiring the arts of antiquity in all their splendrur. industrious civilization was enabled to profit by the lessons which an increasel and increasing knowiedge were enabling them to reccive.
in order to appreciate the arts of antiguty in all their beauty or magnificence, therefore ob: jects which have lieen in pired by religious faith muss be consiulted: the transformations of Brahmah the heroworship of Egypt, or the metamorphoses of Jupiter and Folytheism, bave certainly exerted $a^{\circ}$ influence upon ar: in proportion to the state of advancement of the nations a:nong which these different faiths presailed, and have faroured, rather than repressed, the seareh for the useful and the good Among the Hebrews, who horrowed, from the Eegrptans and Phapnicians.. the practice of thom arte which appared the most useful te them, the refinement of Higyunian taste was introfluced into the temple. and the ornaments of the high priest demanded the aid of the artificers of Tyre and Sidon. Whough Moses is litele commuricative upon the arts of his perioul, he yet makes honourable inention of artixts and artisans-of Fixod. axi. and xxv,
(iuldsinithe, sculptors, smiths, all artisans in general, were free-men, as among the beryb tinns. not slaves, as anong the Romans Christianity, which has for its foundation the love and welfare of the human race. hat no sonner become secure, than its efforts were directel to the tearhing of the great mass of mankind: and from the third century, the light of universal toleration arose. which diupersed the clouds in the systems of Pyithagoras and Aristotle. Jainibliciss and l'suchus. with l'orphyrus. initiated into the mysteries of the Neo-llatonician school, and opposed to the dogmatic upirit, of the first theolugians of the church, plunged into the mysteries of ligept for wrapoos of attack. and it is certain that at an early period of the Christian era. we find the traces of an apparenily new wcience, calculated materially $w$ inturnce the future history of the arts and (epri) of the Neorlyatonicians

The book from which this sarred art was taught was ralled "Chema" (bipult-from this the wurd "Chemia," in the fourth or fifth century arose, and Julins Firmicus, in alchurnic in ens uses the phrase ariontia
 - Some authore hare
bio batac to ancient EETpl.
the Starn ujon the Fate of Man." From thin period the nitudy of chemistry was openly followed.
The Christian thenlogiana of this eafly perion, who were seeking the sneans of confuting their antagonisth at all points, drew largely even from the writing" of the Greek philomphers; profane biutury was laid under contribution, and the great charactern of the old pagen philosophy were suramoneld to aid in the oterthrow of the opponents of Chisiianity. These phuiumopers of Greece becato relebraied in the early iconograply of the church. as thone "who had spaten of the incarnation of our lend."
dipllonius was repremented as an wide man. lecarderl, meciting the fullowing wordy:- $=1$ announce in a trinity, one God reignink over all things. His incorruptible word shall bre coareived in the bown of a young rirgin. Dike unte a trow, which darts forth fire, it shall rapidly traverse space ; it chall reize the entire living universe, and shall offer it as a present $\omega$ its father."

Solun. the ditienian, an old man. is made to say:--" When he shaill overrun this changeable carth, tit shall set up his throne without fail. The reaseless ain of lhivinity is to de. struy incuable tassions. He shall be an aljem of hairyl to in incredulous people. He shall be ruppended upon a mountion, and blant suffer all .these thints voluntarily and with sweetness-
"Inucydider, as an obll man:-"God is an evident light, glory to him; from his inteltigence all thines proceed, and refonm theme acives into a wangle unity. There is no uther (jod, not angel. nor mind, nor wisclom, mor sulstance: hut he is the only God, the creator of all existing things the true Word, fecundity itself, which. detrending upon a fertile nature. has produced water from chans."
Plutarch. as a beariled sacre. recives : -- Nothing can be imagined beyond him who kuplasses all things: it is from him and none other thent the Worl joriceeds."
l'iatu, represented as an iznporing old man. sive:-" The old is new and the new old. The Fisther is in the Son and the Son in the Father: the unity is divided into three, and the trinity in reunited in unity."
Arishotie perclaims:-" The gemeration of Cind is unwtaried by its nature. for the word itself receives ifs ersence from him.
Philo-Phitologun says:-" Pebold him who has walked over the immensity of the heavens. which surpeses infinite flame and imperishable fire. All tremble in his presence: the heavens. the carth the sea. the abyss, hell and its dee mons. Without father himself, be is his ow:n facher."

Sophorles. as a lbaid-beaded old man, se-cites:-" There exists an elemal (ind, simple in bis nature, who has ereited the heavens and the earh.

Thoulis, king of Eigypt:-"The Facher is the Son. the Sun is Fabber. incariste, an will bowertul God.
The holy llalanm, as an old man reiled. suys :-" A star of Jacob shall arist; a man of Israil shall arise, who shall crush the chiefs of Noab.

The wime sibyl:-"An eternal God shall conie from beaven. Who whall judece all thesh and all the universe. (If a virgon, spouse without stain, shall come the only Sion of (iod." (L.punpria -its "whpasisin.)-Gireet MS. from Mount Athis.
Thiske saves (writes M. Didrou). Plano, No crates: and the rest, gave nearly these responses which the Guide for l'ainters (the MS. from Nount Athos. of the twelfih century) has hete preseribed. The lireeks were gratitied br representing their great inen thus rendering homage and witness to Chrintianity. Une of the unost recoarkable examples of this clans of proofs is painted in the monasury of lying, at Mount Athus. The exterior porch of tho smal! church of the Virgin (lieyaya Hemparriasa-hearine-viggin! is coverat with eriat fypures. representing l"utarels. 'Thucrdider, Sophocles. plato. Aristote. (hilu, and isulun, rarh cartyink a handerale. in which the ('hristion belief is inseribed. Thucrdides beate the tite of

 atcached. libe inscriptions bormu by these

