can only be a eoncretion of brick-material smore or leas wilfully packed. and depeading in a graster or less degree, accordiog to the bell given to the brieks, ur fragouenta of hrichs, ifynn the consistence of ahe settimer material. Hut setting material, by whateser danie known, inusi be plastic to be workell, and the power of a concretion of hricks and mortar of coment to renist pressure can hardly be greater than that of the setting material, which being pluatic, is in a rielding condition although it elexree equal to that of the harler material wheh it in intended to combine.
wher, in the cave in question, the lossernent wall and the petcstida upon it are lonit of bricks set in inortar, and honded in the usual manoer, and the wright of the superstructure came pion the pedertals and now the walla at right angles to the heths of tic luricks in tis strongent coadition, and it ree ived the pres. sure in the manner whiclo evyosed it in the least ilegree to derangument, so long as the prearitre remained measlyand direat. Hut the columna here round tradice, anal the liricks nsed in luilding thens were not haid that or on their broard Inclo, but on estrec on their narrow sides, ant they were cut and packed to prowluce she requinal form, involving the use nf many sinaturet fragments in every conrse, to filt the burly nith nolid snatter. 'lhis pro-
cess necessarily called into operation the adhewive properties of the settang inatertal to coonline the fragunents, and ibe strength of the miructure way, conbequently, un greater than that which the cement uned avaietting material had attained ly induration. lsut it is admitted on ull hands, that cement, that is to kiry: cement of the kind used in the enlumns which fell. requires time to indurate fully, or to attaio a degree of hariness in aby degree approanchink to that of good bricks, in wich state aloze it could hold torether the bricks and fragments of loricky, which the abounce of bond repaired it to hold tugether with any think like the effect uf lionded brekwork.
There arc, moreover, circuanstancen in the composition of the atructure which make it necessary to inquire, whether the unequal preskure of the oppere part of the entablature and of the attic wall over the columns, may" not terial in the jointa of the wotk in any part? The weight of the superstructure fell somewhat undudy apon the inner nr southern row of the colutons: and if the juinta of the work in the columos haul been compressible, the sajer. stracture would have taken it leaning southWard, which, if it had taken place, must have been ohserved, as the inen were stid at work !ןwo it. Roman cemen-ice cement in yucstion-setw, however, in a very shor: time; and all the cement in the columns must bave taken a wet rery long before the atticewall was raised, and havinu onea oef, it is no longer plastic. and therefore
not compressible but by crishiog, which whilly dextroys it; and if the eemeot be erushed, the work depending unon it neceswa. rily fails. Nor can it le anpposed that the moertar in the pellestals rielded unequally, if it gielderl at all: fur although the
weight cance uman is inore by the gouthern than by the northern ruw of colnuns, the alifiernece could not have lien no great as to act unamully upon the inpriar in the perlextalas: if, indeel, the supperstructure liad lees heavy at all in firnportion to the paswer of sthphorting wright, which the petlestals possesuect, steing that they were luilt of lirick work in its atrong: ext form. -that is to says, vith the brieks on their beole, and truly loonled.
Ind it is also necersary to inquire whether, having regard to the wright uf the supperstrue ture, and to the ansumed power of resisting pressure of the substructure, und particularly of the columns. the colamns rould have pivern way under the dead weight put upon them: This doey not appear probable, having regard to the goond quality of the materials used; and cmpluyetl, and to the tine that had clapame
cm cmpluyen, and to the time that had clapased
fron the cornplation of the columns to the fall of the greveture, for alihough conuplete iaduration of the cement condel but have taken placi, the omlinary proctice of limildiay rould have juatified the proceeding with the work. It is, therefore, my confideat
belief that if the rement had lieen fully indurated, the columos would liave carried rafely all the weight whiel they were reywirell wo
earry, and, unler all coosingeneies to whieh they could lave been exposed; mor is it likmls. that the columns, as thry were, would break up under a inerely deal weight guch as that of entablature and sittic wall, but as they certainly Llid break, it seems wery certain thas the movement of the weaffolt, indoced by the exertions of the mern who were eogaged io morrosing the heipht of its alreadr bofty poles, wakether with that derived from the men who were at noork upon itw atages, gave the impular rhich imbucal the fall.
lochomaty 2 , 18:

## THE DHACTICE OF ARTISTS OF THE

 MDDLE AGES.fis reconcidering the writinge of the eaty. fathers of the church. or of the mare lumblile profesens of the Chowtian meligion, wher. priests thrmselves. worked in silence and in praver for the ndvancement of the true feith. which had not only urvived the war with praganism. Jut had ivaned triumplantly from the conflict. one eminent fact is to be olserved: the alliance of relynion with acience and the arts was confirned, and these were fostered to an extent lefore unattainahle; for the flool. gates which had hitherto confined knowledge within a mngstic boundary had been opened ant while almiring the ars of antiquity in all their splendsur. industrious civilization was enalsed to profit by the lessona which an increased and increasing knowledge wret e:abling them to reccive.
in orler to appreciate the arts of antiguity in all their buaty or magaificence, thurefore, oli= jects which have leen inspired loy religuous faith most. le cossudted: the tranaformations of Bralumah the hero-worship of Exypt, or the metamorphoses of Jupiter ankl Folytheism, bave certainly exerted ani influence upon ar: in proportion to the state of advancement of the nation a:nong which these difierent faiths presailecl, and have faroured, rather than represset, the seraich for the useful aod the good. Among the llebrews, who lwormed, from the Eegeptans anel Mhepoicians,. the practice of those arta which apprared the mont useful to them, the refinement of kgyprian taste was introluced into the temple. and the ornaments of the high priest demnanded the aid of the artificers of Tyre and'Sidon. Athouph Mores is litele communicative upon the arts of his perioul, he ver makers honouratule inention of artime s and artisane - - F Fxod. yxi. and xx
(iveldsaiftn, scuiprors, smiths, all artisans in ueneral, were frecemen, as among the berylo tians. not slaves. as among the Komans Christianity, which has for its founctation the love and welfane of the human race. had no sonner become secure, than ita eforts were directerl to the tearhing of the great mass of mankind; and from the thiral century, the light of universal toleration arose. which diupersed the clouds in the systerns of Yyibngoras and i Irintotle. Jaunlibicus and l'ruclas. with torphyrus. initiuted intw the mysterien of the Neo-llatonician schom, and niposed to the doznnatic npirit. of the fir-t thenlogians of the ehareh. plunged into the mysteries of ligygt for wrajoons of atlack. and it is certain that at an early period of the Christian cra, we find the traces of an apprarently new science, calculated matcrially wo influence the futare history of the arts and yciedces, viz.-the " ascred science" (axiorann itpai) of the Neo-Matonicians.
lhe book from which this nacred art was taught was called "(Cherna" ( ${ }^{\text {jupult }}$ t-from this the wurt "Chemia," in the foturtl or fifth century arose, ant Julius Fifmicus. in the fifth rentury, uses the phrase "scientia a/chomict." in a work "On the Influence of
Mr. H. Headric. Juag.
To Some sutbor have
the Stara ujon the Fate of Man." From tha penod the study of chemistry was opeoly followed.
The Chrimtian theologians of this eafly periond, "ho wrre weeking the means of confuting their antagonists at at points, drew largely even frotn the writing of the Greek philomphery; profane biskury wan laid under contribution, atad the greas charactern of the old pagan phidusophy were summonell to aid in the oferthrow of the opposedts of Chrimianity. "These phulueophers of Gireece became reielorated in the carly iconograplyy of the church. as thowe "who had sproken of the in carnation of our Iond."

A|polloniua was repremenced as an tid man. beardet, reciting the following wordy:-" 1 announce, in a trinity, one food reisping over all shinge. Hin incorruptible word thail be conceivel in the bomm of a young ringin. libice untu a bow, which diarts forth fire it shall rapidly traverse space; it shall seize the eatire rapidy traverse space ; it shafler mize the eoure haidg univers:
Solon. The Ithenian, an old man. is mave to say :- When he slaill overron tbia changeable carth, lie shall set up his throne without fail. The craseless ain of lhirinity is to destrey incusable passions. He whall be on object of hairerl to is iocredulour perple. He shall be woymendel upun a mountain, and shat suffer all these thints voluntarily and with sweetnes--
lhncyutide-. as an old man:-"God la an evideat light, wlory to him; from him iavelkigence all things pruceed, and refona themselves into a sumple unity. Theri ia do uther (iod, nor angel. Dor mind, nor wishom, por aulatance : but he is the only God, the creator of all existing things ; the true Word, fecundrty itself, which. dewending upod a fertile nature. las produced water from chairs."
phutarih. 2s a leariled sacte. reciles:". Nothing can be imaginell beyond him who surpasses all things: it is from ham and nowe other thist the Word lurocredn."
l'lasu. represented as an isoposink old man. suyn:--" The old is arw and the new old. The Fither is in the tion and the Soo in the Father: the unity is divided into three, and the srinity is reanited in unity."
itrishole proclaims:-" The perseration of Gint is unwtaried by its nature. for the word itself receiver its essence from bim.
Philo-Philologua savs:-" Bebold him who hat walked over the immensity of the beaveon. which aurpasea infinite flame and imperiabable firc. All sremble in bis preseace: the heavens. the carth, the sea. the abyes, hell and its des ruons. . Wichout father himself, be is his own father."
Sophorles, as a lajed-headed old man, re-cites:-" There existo an ctermal (ixd, ximple in bia oature, who has created the heavera and the earth."

Thoulis, king of Eigryp:-" The Fatber is the Son. the Sion is Fraber. incarnste, an ull10wertial God.
The holy Halanm, as an old man veiled. Isro:-" I star of Jacoh shall arist; a man of Naah.

The wise sibyl:-"An elernal (iod ahall conve from heaven. who whall judtc all theth and all the universe. (If a vingin, spouse without stain, shall) come the only Hon of (ivel." ('L.punpria eis "wypaorsic.)-Greed MS. from Mounf tlhwe

Thase sayer writes .N. Didronto Plato, \&ise crates. and the rest, gave bearly these responses which the Guide for l'aintern whe MN, from Nount . Thos. of the twelfth ceptury) has here preseribed. The lireeks were gratited be reprosentiog their great inen thus rendering homage and witoen to Christianity. One of the moat remarkable examples of this claay of proofs is painterl in the monastery of lirion, at Mount lthus. The exterior porch of tho nmall church of the Vingin Imeraya Mlyparfiesa-hearing-virginl is coveratl with srat fypures. represeatiog ["lutarelh. I"bucrilider. Sophocles. I'suso. Aristu:te. ('hila, and folun, rarb earying a banderole. in, which the ('hristian belief is inscribed. Thucrdiles beare the tite of
 (niant" is. sopraiw. ; Clisu, of "1 "earned" (ib piluloyos li the rent have nut epitbers altached. "the inscriptions borme by these

