## moUntain cottages.

In the neighbourbood of the Laken, these INellioge, oven at the present time, are found dweltanged oves valleys, under hills, upon rocks. and io setlred and recladed places without any Intrusion of more assuming buildings.

Them erections ara, to many isstances, of the colour of the mative rock, out of which they have beea boilt:-

## - Clopered tike mant; mome fow but aingle moot,

And lerking dimily in their nhy retreats:
Or glanding on earb alber cheerful look:
Or ghodig on each olber cheerfal kooks
Like mperind stars with choud between
The dwellingn, io most cases, have deacended from father to son, yet neceatarily with changes io their eircumatancen: they have recrived without incongruity additions and alterationa adapted to the need of each ouccessire occupant; so that these bumble dwellinge remiad the eontemplative apectator of production which bat risen from the ontive rock. Among the numerous recemes and projectiona io the wills, eod the different atages of the roofe, are seeo bold and harmoonoue effecte of light and abada : nor will the aingular epprasance of the chim. neyi escape the eye, nome almoat opon a level writh the roof, othert of a quadrangular shape, riaing one or two feet: the covering of the roof in geaerally of rough ulateri; rudely takea from the quarry; and being rery uneven in their surfuce they bave furaiebed place of reat for asede of lichene, moasct, feras, and Aowers. Hence buildinge, which, io their very form, call to mind the proces of oature, do thus, clothed with thin vegetable garb, appear to be receired into the boom of tha liviog priaciplo of things es it ects and exitultamong the woods and fielda, and, by colour and obape, affectingly direct the thoughts to tho tranquil coursa along whicb the bumble-minded iobabitanta bere, through to many geñerations, been led.
G.J. R

UNION OP BNGINRERS AND Architects.
As a beantiful design for a building ie useleus, bowever well it may look to the eye of casual obverver, it it cansot be put into erecution, so it a projeet unerailing, ualess the object it has in view can be practically effected. I therefore truat you will allow moe 10 follow ap some former suggeation wbich I made in a leter addresaed 10 you on the importati quention of onioo between the merabert of the architectural and ciril engineering professions, to which 1 must beg in the frat inatance to refer your readers, wha will fand it in Tur Borloses, of the Bth of February, 1851. The subject is one of such consequence to the position and advancemeat of constructive art, that I aine erply with to see it akken up con amort, by influential rpespber of engineers' and architeets' Iactitu. cinns. In our inolated otale as bodies corpo-
rate, wo may be compared to like quanticiea in rate, we many be compared to like quantities in
Algebra, haviag positive and negaive signa, Algebra, haviag positive and negacive signe,
and coniequeotly neutralisiag each other' efforts and dentroying one another's very esisLeace, inatead of corabining in a farmidabla array of anmerical strength to farther our common aime. Inoald propose, then, ase prolude to our seciog in concert,-a consummation I hape will be realised at no very diatant period,-tbat the aciecties of engineers hould invite mernbert of the arebitectural profennion to
saziosi, where they woald hare the opportu. nity of reading pepery on some aubjert con. sected with the pronciples of conntruction, or the decoration of atruetures, and where mem. bert of both proleasione could diveuss all mattere of mutual interest. Architects iboold then, in their tura, effurd a like oecaaion to engineera fir reciprocating ideas whieb
woold tend to the commoo good, and thua a solid foundation would be laid for the conatruction of a united society, which would be cermented by ao enduring and coutually enpportizg bond of friendahip.
1 chink, also, that much good minht be dane by the entiblisbroeat of a elab, as a place of resort for engineter and arcbitects, to which erilitary engipeert aboold aleo be eligible. Por this purpoce, they right all combian to-
gether, wa the naral and military profestione have done, and find the beneft of doing, in their United Service, Army and Nary Clabe, \&e.
W. II, V. S.

LONDON IMPROFEMENTS AND THR PUOR.
Uranaz the proseous palare bigh:
Lee colamn atier column rise,
And ar put forth is ofmemetry.
And aculpture warm "aeath royal eres.
Ob! 'ris a grodly night to nee.
In Brituin, westithy, proud, and frow,
lles monarch's home s temple fair,
Bedert'd with all things rieb and ran Bederk'd with all thiness nict and rare A cibutary world cato bring
Pur England's queen or Eagland's tring.
Baild for the queen!-formind it mor ;
Bat, ah! Tho bualds lis poor man'o cot?
Buik for the ceerchant, rear the nart: Por conmerce makre a apleadul bome:

Pooldy upraise the rpecious dome.
There ahall a mighty congrese mert,
The iords of Britiois metchanat-Hert,
The buay trefickers, whone slores
Are garnimitd from is mprisd ibores
But, oht ' the syualid bome that mockp
Tac labourer of our merchants docks: Be not the carment cre forme.
Who builds, who buulds, the poor man's $\infty$ ? ?
Build high the colomen to the dead
Who dwad for Ragland ! it is well.
"Thuse reones might give the livizag bread. Mre hibuild warmbinmes wheremen mighidwell, The poor man thinks - a churlish ibougth, Bol be merr quickly belter caught If thote who rear'd that rolumn's heirht To build bomes, where onveniont site" The inbonriag meo might rest content. The inbonning mat might rest content. Whu bridle, who builds, ther poor mannis cot:
Who builde? who boilla? Alac. Te poor! If Laodon dat by day "' iropruses,
Where ahall ye fode ofriendis Jour.
Khen every day a bome remeres?
Wide nerels " low neighlourhond. " reeinim, Where virtue livee nait dour to nbanue. Who will build homes to bouse equin Those $\bar{x} 4$ are maling bornelcas inen: - Down with ron beunt of sire." we tryAlas ! there pror mea life and die. Then ere we triumph oier the sume. Who bulld, who builds, the poar mats oos?

## dooks.

Hore Agyptiace: or, the Chronology of Ancient Egypt, discorered fram astrongmical and hieroglyphic records upon its monuments, including masy dates found in corcal inseriptions from the period of the building of the Great Pyramid to the times of the Persians. By Regisald Stliart Podle. With plates. Murray, Albemarle-atreet. 1351. This elaborate iequiry is an enlarzed edition of a seriew of papers on the ancient chruoulogs and biatory af Exypt published in the Liberary Gazetfe by Mr. Poole, who in a aephew of Mr. Lane, celebrated for hia Exyptianolore, and his (ahall we maj) destructiva exercise of it on "the Arabian .Nights" of our childhood. The work in publinhed under the aunpicte of the Duke of Sorthumberiand.
The peeuliar feature in Mr. Puole's researches is the maiblenance of the asertion that maoy of the kinge io the ioterminable dynastiee of Eaypt were concemporaneoun; thur preatly alteriag aur idean of the chroooJogy of ancient Egypt. On a aubject slready loeming with perplesities and differences of opinion, wa bave thue one more difference added, either to increase the uun total or to clear it all away. "I act anara how grealy I dinagree with all otbers who bave written on ibis aubject," the author abeerves, "but it is a suffient coneolation to me, slace all differ, that it is litule more to differ from all others. than to differ from all of them but one." It
remains to be seen. therefore, how thic tons of contention will be picked by the already differiog Exyptian arcbacolaginto in future works. For our oun part we coofese that in atadyiog the majority of sutbors on this ub. ject, we have aver felt as if we were wilkiog on thin and brime ice, and liabla to fall through at very atep. We would adsise a atill more paliant and peoctrating research amongst the
recorde of Exjptian theargJ, the rolla of dogical recorde, and ather atores of tha "wisdom " of ancient Exypt-or retber, of the supertitious remias of that indom: there - e doubt not come light would be gol whereby to decipher canch that is obseure on its monnments.
Un the aubject of the pyramidn, of courne. the authar givet his poruliar riems. "It has lieen aupposed," he remerke, "that each pronmid was the tomb of anvereign or sovereigon. and that all the prramida were built before the Shepherd invation, being the wabe of succeasivakingt. It is enough ta remark that ancient authority, the evidence of the monu. meas, and the relatire position of pyramde, are againat thit theory ; and the monumente diatinctly show that contemporaneoue kings were huried io the pyramids aroand Mem. phis."
| Froad. Drok of Nofurol Phinsophy and Asfrosnmy. By Diosimita liandsan, 1).C.L., formerly Profentor of Natura! Philosophy and Aatronomy to Univeruity College, London. Firas Course- Hydro-statica-Hydraulice - Paeumatice - Soand -Optics. -ith upwards of four bundred illuatratioas. Taylor, Waltoo, a ad Maberly, Paterooster.row. 1631.
LaBDNer and Mechancal Pbilonophy, ubough Dot esactly eynonywous trme, bave long been asociated aomptrat as the ublizart onbject of Ax:ronomy bas been with the aame of Herachel; not no much as a discoveret certainly, lut as. tracher and interpreter of nature't lawa. No one, therelore, an be far wronk in recnemmending a wori on Natural Philnsouby by Lardner. In the componition of the present work the sutbor ban bad in rien the satisfaction of those who detire to obsaio a knowledge of the elemente of phraicu withous pursuing them tbroukt their mutbe. unatical consequencea and details. The methode of demonetration and illuatration hove mecord. ingly been adapled to such readers. The work has been aleo compored with the object of aups plyiog that information relating to phyoiral and mechanical science which is required by the engincer, the artsan. and others nueth as those wha are preparing for the univeraider, and, in fine, by those wha, baviag already entered upon the artive purauta of bueineae, are still desirous to subtain and improre their knouledge of the peneral trutbs of pbraica and of thone la wa by a bich the order and anbiaity of the material world are maintained. The eecood courne will cuntan beat, electrieity, maznetinca, and antronome.

A! a specimen of the work we may quote a portion of the author'u remarks on the atrength of materials:-

Streagth iffobeom inetreased by partially saring is transeersely and inserting a redge.According to Peschal, the tranrverne atreagib of a beam of timber may be greatly increased by sawing down from one. hird to one balf of ita depth, and driviog in a wedge of metal or bard wood until the beam in forced at the middle out of the boricontal line, in as to form an ansle preneoted upmards. It was found by auch an experiment that the tranorerne atreogth of a beas thus cut $t$ one-thied of its deprh. wes incressed one-ningteentb: when cut to one-half of its depit., it was iacreaned one twenty-ninth; add when cut to three-fourthe of ita depth, it was iocreased one eightyvevonth.

Why the strength of a structupe is diminished as ifs mognisude is inct nosed.- It followe from the principles whicb bave lieen expleined, that if a oy atrcture be increased in maynitude. the proportion of lie dimeneione being preserved, the atreagth will be augurated at the squarob of the ratio io which it in increased. Thua, if ita dimensions be iocreaced io a (wo-fold proportion, its arength will be increased in a four. fuld proportion; if they be inereased in a three-fold proportion, iti atreapth aill be increased it a nine-fold proportion. and 00 on. But it is to be cansidered, that, by increaning its otrength in a two.fald proporion, it valume, and coarequencly its weight, will be increased in an eight-fold proporion; and by incrensing its dimeasion in athree-fold pro-

