Medical.

CATARRE

SUCCESSFULLY TREATED WITH

ROUND THE MOON. CHAPTER III. -Continued.

It was fine weather. understand that under present onditions their needles were acting rildly, that is without any constant lirection. Indeed, at the distance they were from the earth, the magnetic pole it would be interesting to see whether the earth's safellite submitted like her-

self to its magnetic influence.

A hypsometer to measure the height of the lunar mountains, a sextant to take the height of the sun, glasses which would be useful as they neared the moon, all these instruments were

good in spite of the violent shock.

As to the pickages and different tools which were Nicholl's especial choice; as which were Nicholl's especial choice; as to the sacks of different kinds of grain "No," answered the president of the sacks of different kinds of grain "Of our Cambridge friends. You granary there, loaded with things which the extravagant Frenchman had heaped the good tempered fellow did not ex-plain. Now and then he climbed up cramp-irons riveted to the walls, but kept the inspection to himself. He arranged and rearranged, he plunged

est that his guns and other arms had not been damaged. These were important, because, heavily loaded, they were to help to lessen the fall of the projectile, when drawn by the lunar attraction (after having passed the point of neutral attraction) on the oon's surface : a fall which ought to be six times less rapid than it would have been on the earth's surface, thanks space through the side windows and the

lower glass coverlid. There was the same view. The whole extent of the celestial sphere swarmed with stars and constellations of wonderful purity, enough to drive an astronomer out of his mind! On one side the sun, like the mouth of a lighted oven, a dazzling disc without a a halo, standing out on the dark backmoon returning its fire by reflection, and apparently motionless in the midst of the starry world. Then, a large spot seemingly nailed to the firmament, bordered by a silvery cord; it was the earth! Here and there nebulous masses like large flakes of starry snow; and from the zenith to the nadir, an immense ring formed by an impalpable dust of stars, the "Milky Way," in the

During this time Nicholl, the calcu-will answer all our purpose." lator, looked over the minutes of their not answer him, and then with Nicholl, calculus is not yet far enough adwho did not hear him, with Diana, who vanced." answering, going and coming, busy their last word?" he represented French loquacity and this 'integral calculus?" day, or rather (for the expression is not seriously. forms a day on earth, closed with a no doubt."
plentiful supper carefully prepared. "And no happened to shake the travellers confidence; so, full of hope, already sure of success, they slept peacefully, whilst the projectile under an uniformly de-

> CHAPTER IV A LITTLE ALGEBRA.

The night passed without incident. the word " night," however, is scarcely

creasing speed was crossing the sky.

The position of the projectile with regard to the sun did not change. Astronomically, it was daylight on the lower part, and night on the upper; so when during this narative these words are used, they represent the lapse of time between the rising and setting of glyphics, more incomprehensible than the sun upon the earth. The travelers' sleep was rendered

more peaceful by the projectile's excessive speed, for it seemed absolutely motionless. Not a motion betrayed its onward course through space. The rate always tell you its speed at any point of progress, however rapid it might be, of its transit." can not produce any sensible effect on the human frame when it takes place in a vacuum, or when the mass of air cirwith it. What inhabitant of the earth with it. What inhabitant of the earth perceives its speed, which, however, is at the rate of 68.000 miles per level. at the rate of 68,000 miles per hour? get an equation which shall satisfy the Motion under such conditions is "felt" conditions of the problem." The reno more than repose; and when a body remainder is only a question of arithmeters, and the least the lea is in repose, it will remain so as long as no strange force displaces it; if moving, of the four rules." it will not stop unless an obstacle comes

tion or repose is called inertia. Barbicane and his companions might | the rule as a Chinese puzzle, which alprojectile; indeed, the effect would have been the same if they had be on the outside of it. Had it not been atmosphere." for the moon which was increasing above "Just so," said Nicholl; "it is from

through the ear. Michel Arden, who | Michel.

them, they might have sworn that they | that point that we must calculate the were floating in complete stagnation. velocity, since we know already that That morning, the 3rd of December, the travelers were awakened by a joybus but unexpected noise; it was the browning of a cock which sounded "I understand no more." said

velocity, since we know already that the velocity at departure was exactly one and a half times more than on leaving the atmosphere."

69 Bbl. extra MFSS BEEF. 20 Half Chests Eng. CONGOU TEA. 20 Boxes Black TOBACCO. 20 Butts Bright do. 20 Caddies do. do. All in bond, for sale low by the travelers were awakened by a joy- one and a half times more than on ous but unexpected noise; it was the leaving the atmosphere." crowing of a cock which sounded "I understand no more," said

was the first on his feet, climbed to the top of the projectile, and shutting a box, the lid of which was partly open,

my design !" But Nicholl and Barbicane were awake. "A cock!" said Nicholl.

ould have no perceptible action upon ed to awake you by this rural sound.' mar disc might perhaps exhibit some strange phenomena. In any case done honor to the proudest of poultry-

The two Americans could not help "Fine talent, that," said Nicholl, looking suspiciously at his companion.

"Yes," said Michel; " a joke in my country. It is very Gallic; they play the cock so in the best society." Then turning the conversation,— "Barbicane, do you know what I

and shrubs which Michel Ardan hoped have already remarked that I am an were stowed away in the upper part of ignoramus in mathematical subjects, the projectile. There was a sort of and it is impossible for me to find out how the savants of the Observatory were able to calculate what initiatory What they were no one knew and leaving the Columbiad in order to at-

"You mean to say," replied Barbicane, to attain that neutral point where the terrestrial and lunar attractions are equal ; for, starting from that point, his hand rapidly into certain mysterious boxes, singing in one of the falsest of voices an old French refrain to enliven voices an old French refrain to enliven to the false traveled over, the projectile would simply fall upon the moon, on account of its weight."

"So be it," said Michel : "but once more; how could they calculate the initiatory speed?" "Nothing can be easier," replied

Barbicane. "And you knew how to make that calculation ?" asked Michel Ardan. "Perfectly. Nicholl and I would have made it, if the Observatory had

not saved us the trouble" "Very well, old Barbicane," replied to the difference of the bulk. The inMichel; "they might have cut off my spection ended with general satisfachead, beginning at my feet, before they could have made me solve that prob-

"Because you do not know algebra," answered Barbicane quietly. "Ah, there you are, you eaters of 21; you think you have said all when you have said "Algebra." "Michel," said Barbicane, "can you

use a forge without a hammer, or

plough witout a ploughshare?"
"Hardly." ground of the sky! On the other, the "Well, algebra is a tool, like the plough or the hammer, and a good tool to those who know how to use it."

" Seriously?" " Quite seriously." "And can you use that tool in my presence ?"

"If it will interest you." " And show me how they calculated the initiatory speed of our car.'

"Yes, my worthy friend; taking in midst of which the sun ranks only as a to consideration all the elements of the star of the fourth magnitude. The observers could not take their eyes from of the earth to the center of the moo this novel spectacle, of which no des-cription could give an adequate idea.

of the radius of the earth, of its bulk, and of the bulk of the moon, I can tell What reflections it suggested! What emotions hitherto unknown awoke in their souls! Barbicane wished to besimple formula."

gin the relation of his journey while "Let us see." under its first impressions, and hour "You shall see it; only I shall not after hour took notes of all facts hapgive you the real course drawn by the pening in the beginning of the enter-prise. He wrote quietly, with his large earth in considering their motion round square writing, in a business-like the sun. No, I shall consider thes two orbs as perfectly motionless, which

"And Why?" passage, and worked out figures with passage, and worked out figures with "Because it will be trying to solve Sewing Machines. delled dexterity. Michel Ardan the problem called 'the problem of the chattered first with Barbicane, who did three bodies,' for which the integral

understood none of his theories, and "Then," said Michel Arden, in his

with a thousand details; at one time bent over the lower glass, at another "Certainly not," replied Barbicane. "Well, perhaps the Selenites have Agents Wanted in all Unoccuroosting in the heights of the projectile, carried the integral calculus farther and always singing. In this microcosm than you have; and, by the by, what is

excitability, and we beg you to believe "It is a calculation the converse of that they were well represented. The day, or rather (for the expression is not seriously.

correct) the lapse of twelve hours, which "Much obliged; it is all very clear, "And now," continued Barbicane, No accident of any nature had yet "a slip of paper and a bit of pencil,

and before a half-hour is over I will have found the required formula.' Half an hour had not elapsed before Barbicane, raising his head, showed Michel Ardan a page covered with algebraical signs in which the general

The best guns for the price ever produced. Unformula for the solution was contained.

Versally recommended by those who have use formula for the solution was contained. "Well, and does Nicholl understand

what that means?" "Of course, Michel," replied the captain. "All these signs, which seem Patent Cartridge Loader. cabalistic to you, form the plainest, the clearest, and the most logical language to those who know how to read it.'

"And you pretend, Nicholl," asked Michel, "that by means of these hierothe Egyptian Ibis, you can find what initiatory speed it was necessary to give to the projectile?"

"Incontestably," replied Nicholl; "and even by this same formula I can" "On your word?"

"On my word." "Then you are as cunning as our

"That is something!" replied in its way. This indifference to mo- Michel Ardau, who for his life could not do addition right, and who defined

"Not as simple as I am, retorted Michel.

"That means, that when our proje cane had also brought several your tongue? That creature will spoil atmosphere it had already lost one-third of its initiatory speed." "As much as that?"

> "Yes, my friend; merely by friction against the atmospheric strata. You "Why no, my friends," Michel understand that the faster it goes the answered quickly; "it was I who wish more resistance it meets with from the understand that the faster it goes the "That I admit," answered Michel;

"And I understand it, although your

x's and zero's, and algebraic formulæ, are rattling in my head like nails in a "First effects of algebra," replied Barbicane; and now, to finish, we are going to prove the given number of

these different expressions, that is, work out their values. "Finish me!" replied Michel. Barbicane took the paper, and began again to make his calculations with great rapidity. Nicholl looked over and greedily read the work as it pro-

"That's it! that's it!" at last he "Is it clear ?" asked Barbicane.

"It is written in letters of fire." said "Wonderful fellows!" muttered Ardan. "Do you understand it at last?"

asked Barbicane. "Do I understand it ?" cried Ardan ; my head is splitting with it." "And now," said Nicholl, "to find ut the speed of the projectile when it left the atmosphere we have only to

calculate that." The captain, as a practical man equal to all difficulties, began to write with frightful rapidity. Divisions and multiplications grew under his fingers; the figures were like hail on the white page. Barbicane watched him, whilst Michel Ardan nursed a growing headache with both hands.

"Very well?" asked Barbicane, after ne minutes silence. "Well!" replied Nicholl; "Every calculation made, v zero, that is to say, the speed necessary for the projectile on leaving the atmosphere, to enable it to reach the equal point of attraction, ought to be-

"What is the matter! why, if at

this moment cur speed had diminished

one-third by friction, the initiatory

"And the Cambridge Observatory

declared that 12,000 yards was enough

at starting; and our projectile, which

"We shall not be able to reach the

"We shall not even get half way.

" In the name of the projectile!"

exclaimed Michel Ardan, jumping as

f it was already on the point of strik

"And we shall fall back upon the

(TO BE CONTINUED.)

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"Seventeen thousand yards."

speed ought to have been-"

only started with that speed-

" Good "

earth !"

eutral point."

" The deuce !"

ing the terrestial globe

Well?" asked Nicholl.

"Well, it will not be enough."

qualizes the Circulation, undudes Inflammatory Action, undudes Inflammatory Action, undudes Inflammatory Action, undudes Inflammatory Action, under States and Strains, removes Pain and Soreness, current Sidney Complaint, strengthens line Muscles, currents States States and Southing, is Crasten and Southing, is Crasten and Southing, is prescribed by Physicians. Is indorsed by Electricians. "Yes ?" said Barbicane. "Twelve thousand yards." "What!" exclaimed Barbicane, starting; "you say-" "Twelve thousand yards." "The devil!" cried the president. making a gesture of despair. PRICE 25 CENTS. "What is the matter?" said Michel Ardan, much surprised.

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