BOUND THE MOON. CHAPTER V.

THE CLOD OF SPACE. This revelation came like a thunderbolt. Who could have expected such error in calculation? Barbicane would not believe it! Nicholl revised his figures; they were exact. As the formula which had determined them, they could not suspect its truth; it was evident that an initiatory velocity of 17,000 yards in the first second was mary to enable them to reach the

eutral point.
The three friends looked at each other silently. There was no thought of breakfast. Barbicane, with clench- it?" ed teeth, knitted brow, and hands clasped convulsively, was watching through the window. Nicholl had d his arms, and was examining his calculations. Michell Ardan was

"When?"

not yet hardened."

hungrily.

are dead."

ed Barbicane.

their skins into drums."

my poor Diana, that you will leave no

Indeed the unfortunate Satellite had

not survived its wound. It was quite

dead. Michel Ardan looked at his

"One question presents itself," said

Barbicane. "We cannot keep the dead

body of this dog with us for the next

"No! certainly not," replied Nicholl

but our scuttles are fixed on hinges;

they can be let down. We will open

one, and throw the body out int

The president thought for some mo

"Yes, we must do so, but at the

same time taking very great precau

inderstand." answered Barbicane

the projectile, and of which we must

"Only in part. We make only the

"But we manufacture the air ?"

apparatus does not furnish the oxygen

would bring us very serious physiologi

cal troubles. But if we make the oxy-

gen, we do not make the azote, that

medium which the lungs do not absord,

and which ought to remain intact; and

" Agreed; but we must act quickly."

"But the sun?"

nents, and then said.—

"Why?" asked Michel.

loose as little as possible."

friends with a rueful countenance.

forty-eight hours."

tions."

progeny in the lunar regions!"

cows, bulls, and horses, and all rumi-

"That is just like those scientific and crush it, together with the whole lot of dabblers in figures which it con-

ain, which he at once communicated

"Ah!" said he ; it is seven o'clock n the morning ; we have already been gone thirty two hours; more than half our passage is over, and we are now falling that I am aware of."

Barbicane did not answer, but, after a rapid glance at the Captain, took a powder." pair of compasses wherewith to measure took an exact observation, and noticed nary. Then rising and wiping Satelite." his forehead on which large drops of prespiration were standing, he put given to the dog, which devoured it for our satellite lies in a vacuum." some figures on paper. Nicholl understood that the president was deducting from the terrestial diameter the projectile's distance from the earth. He Ark of this projectile, and borne with atched him anxiously.

"No," exclaimed Barbicane, after of domestic animal." nome moments, "no, we are not falling! no, we are already more than 50,000 failed us." langues from the earth. We have passed the point at which the projectile have squeezed a little." rould have stopped if its speed had only been 12,000 yards at starting.

speed, under the power of the 40,000 a table nor a shed." lbs. of gun-cotton, must have exceeded the required 12,000 yards. Now I can understand how, after thirteen minutes only, we met the second satellite, which gravitates round the earth at more than 2,000 leagues' distance."

"And this explanation is the more obable," added Barbicane, "because, in throwing off the water enclosed between its partition-breaks, the projectale found itself lightened of a considerable weight."

"Just so, said Nicholl.

"Ah, my brave Nicholl, we are "Very well, then," said Michel Ardan, quietly; "as we are safe, let us

Nicholl was not mistaken. The initial speed had been, very fortunately, much above that estimated by the ige Observatory : but the Cambridge Observatory had nevertheless made a mistake.

The travelers, recovered from this false alarm, breakfasted merrily. If they ate a great deal, they talked more. Their confidence was greater after than before "the incident of the algebra."

"Why should we not succeed?" said Michel Ardan; "why should we not arrive safely? We are launched; we have no obstacle before us, no stones in our way; the road is open, more so than that of a ship battling with the ses: more open than that of a balloon battling with the wind; and if a ship can reach its destination, a balloon go where it pleases, why can not our projectile attain its end and aim?"

"It will attain it," said Barbicane. "If only to do honor to the Americans," added Michel Ardan, "the only people who could bring such an enterprise to a happy termination, and the only which could produce a President Barbicane. Ah, now we are no longer uneasy, I begin to think. What will become of us? We shall get right royally weary."

Barbicane and Nicholl made a gesture of denial

"But I have provided for the contingency my friends," replied Michel : you have only to speak, and I have in too great a quantity; for an excess chess, draughts, cards, and dominoes at your disposal; nothing is wanting but a billiard-table." What!" exclaimed Barbicane;

" you brought away such trifles?" "Certainly," replied Michel, "and that azote will escape rapidly through the open scuttles." not only to distract ourselves, but also the open scuttles."

"Oh! the time for throwing out our scholars and Mighal ing the Selenite smoking divans with poor Satelite?" said Michel.

"My friend," said Barbicane, "if the moon is inhabited, its inhabitants must "The second reason is that we must have appeared some thousands of years not let the outer cold, which is excesbefore those of the earth, for we can sive, penetrate the projectile, or w not doubt that their star is much older shall be frozen to death. than ours. If then these Selenites have existed there hundreds of thou- "The sun warms our projectile, sands of years, and if their brain is of which absorbs its rays; but it does not the same organization as the human warm the vacuum in which we are floatbrain, they have already invented all ing at this moment. Where there is that we have invented, and even what no air, there is no no more heat than we may invent in future ages. They diffused light; and the same with darkhave nothing to learn from us, and we ness; it is cold where the sun's rays have everything to learn from them." do not strike direct. This temperature

"What!" said Michel; "you believe is only the temperature produced by that they have artists like Phidias, the radiation of the stars; that is to Michel Angelo, or Raphael?" " Yes."

" Poets like Homer, Virgil, Milton, day." Lamartine, and Hugo?" "I am sure of it."

"Philosophers like Plato, Aristole, Descartes Kant?" "I have no doubt of it." "Scientific men like Archimedes,

Euclid, Pascal, Newton?" " I could swear it." "Comic writers like Arnal, and photographers like—like Nadar?"

"Certain." "Then, friend Barbicane, if they suppose a comet whose power of attracare as strong as we are, and even strong- tion is greater than that of the sun. er_these Selenites—why have they not tried to communicate with the The terrestrial orbit will bend towards the wandering star, and the earth, be-VERY CHEAP, TO CLEAR. earth? why have they not launched coming its satellite, will be drawn such a lunar projectile to our terrestrial re- a distance that the rays of the sun will have no action on its surface."

Who told you that they have never "That might happen, indeed," redone so?" said Barbicane, seriously.
"Indeed," added Nicholl, "it would of such a displacement need not be plied Barbicane, "but the consequences be easier for them than for us, for two formidable as you suppose." reasons; first, because the attraction on "And why not !"

"Because the heat and the cold the moon's surface is six times less than on that of the earth, which would al- would be equalized on our globe. It low a projectile to rise more easily; has been calculated that, had our earth secondly, because it would be enough been carried along in its course by the to send such a projectile only at 8,000 comet of 1861, at its perihelion, that is, instead of 80,000, which would require its nearest approach to the sun, it the force of projection to be ten times would have undergone a heat 28,000 less strong." times greater than that of summer.
"Then," continued Michel, "I re- But this heat, which is sufficient to peat it, why have they not done it?" evaporate the waters, would have form-"And I repeat," said Barbicane; ed a thick ring of cloud, which would who told you that they have not done have modified that excessive temperature; hence the compensation between the cold of the aphelion and the heat of

"Thousands of years before man ap- the perihelion." peared on earth."

"At how many degrees," asked

"And the projectile—where is the Nicholl, "is the temperature of the projectile? I demand to see the pro- planetary spaces estimated?"

"My friend," replied Barbicane, men: they never do anything else. I the sea covers five-sixths of our globe. I would give twenty pistoles if we could fall upon the Cambridge Observatory the sea covers five-sixths of our globe. From that we may draw five good reasons for supporting that the lunar projectile, if ever launched, is now at the low zero." bottom of the Atlantic or Pacific, un-"Pooh!" said Michel, "that's noth-

less it sped into some crevasse at that | ing!" period when the crust of the earth was "Old Barbicane," said Michel, in the polar regions, at Melville Island you have an answer for every thing, and I bow before your wisdom. But heit below zero." there is one hypothesis that would suit

" If I mistake not," said Nicholl, me better than all the others, which is, the temperature of space at 250° Fabr. "M. Pouillet, another savant estimates are wiser, and have not invented gun- below zero. We shall, however, be able to verify these calculations for our-At this moment Diana joined in the selves."

the angular distance of the terrestial conversation by a sonorous barking.

She was asking for her breakfast.

"Not at present; because the solar rays, beating directly upon our thermometer, would give, on the contrary. a "Ah !" said Michel Ardan, "in our that the projectile was apparently discussion we have forgotten Diana and very high temperature. But, when we arrive in the moon, during its tifteen days of night at either face, we shall Immediately a good sized pie was have leisure to make the experiment,

> "Do you see, Barbicane," said Michel "What do you mean by a racuum ? we should have made a second Noah's asked Michel. "Is it perfectly such?" "It is absolutely void of air." "And is the air replaced by nothing whatever?"

> > "By the ether only," replied Barbicane. "And pray what is the ether?"

"The ether, my friend, is an agglomeration of imponderable atoms, which, relatively to their dimensions, are as far We are still going sp.' nants, would have been very useful on the lunar continent, but unfortunately tial bodies are in space. It is these atoms which, by their vibratory motion, "and we must conclude that our initial the car could neither have been made oms which, by their vibratory motion, oms which, by their vibratory motion, produce both light and heat in the universe as strictly first-class. EXTRAORD LIBERAL DISCOUNT Signer to Churchel Lodges, Halls, Ministers, Teachers, etc., "Well, we might at least have verse."

that courageous best which old Silenus Satellite. They have merely to drop loved to mount. I love those old don- him into space, in the same way that keys; they are the least favored ani- sailors drop a body into the sea; but, as mals intereation; they are not only President Barbicane suggested, they beaten while alive, but even after they are dead."

President Barbicane suggested, they must act quickly, so as to lose as little as possible of that air whose electricity. as possible of that air whose elasticity "How do you make that out?" ask-bolts of the right scuttle, the opening of ing under the PATE "Why," said Michel, "they make which measured about 12 inches across, were carefully drawn, whilst Michel, Barbicane and Nicholl could not help quite grieved, prepared to launch his laughing at this ridiculous remark. dog into space. The glass, raised by a But a cry from their merry companion powerful lever, which enabled it to fice, we can make closer se stopped them. The latter was leaning overcome the pressure of the inside air ower the soot where Satellite lay. He on the walls of the projectile, turned rapidly on its hinges, and Satellite was "My good Satellite is no longer ill." thrown out. Scarcely a particle of air charge, and advise as to paten "Ah!" said Nicholl.

"No," answered Michel, "he is dead! could have escaped, and the operation was so successful, that later on Barbicane did not fear to dispose of the rub "that is embarrassing. I much fear, bish which encumbered the car

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undergo if the sun disappeared one "The above, with many other leading lines, will be sold cheap.

The above, with many other leading lines, will be Nicholl. "Who knows?" said Michel Ardan. But, in admitting that the sun does not go out, might it not happen that

the earth might move away from it?"
"There!" said Barbicane, "there is Michel with his ideas." "And," continued Michel, "do we not know that in 1861 the earth passed through the tail of a comet? Or let us Chatham, June 5th, 1878.

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"It is very much," replied Barbicane "the temperature which was observed and Fort Reliance, that is 76° Fahren-

"I dare say; but room would have "Oh!" said Michel, "we might "The fact is," replied Nicholl, "that

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