BOUND THE MOON.

CHAPTER VI. QUESTION AND ANSWER. ravelers awoke after fifty-four hours' ey, the chronometer marked five clock of the terrestrial morning. In forty minutes, half of that assigned to their sojourn in the projectile, but they had already accomplished nearly seventenths of the way. This peculiarity was due to their regular decreasing speed. Now when they observed the the earth through the lower windows, "Bah!" said Michel, always hope-No more crescent, no more cloudy earth would be new, at the very moaround the black vault was studded with brilliant points, which seemed to move slowly; but, at the great distance hot up there!" their relative size did not seem to change. The sun and stars appeared Nicholl, "that the day lasts 360 hours!" exactly as they do to us upon earth. As to the moon, she was considerably

opographically or geologically. Thus the time passed in never-end- was there! Ah! my dear comrades, and Nicholl always serious, Michel

stoppage would have been.

"But," said Barbicane, "I do not see how it could have been stopped."
"But let us suppose so," said Michel."
"Yes, if we do not beyond the moon?"
"Yes, if we do not beyond the moon?" even then its speed would diminish by degrees, and it would not have stopped "Admit that it had struck a body in

"What body?"

"Then," said Nicholl, "the projectile would have been broken into a thousand pieces, and we with it." "More than that," replied Barbicane: "we should have been burned

Burnt ?" exclaimed Michel, " by Jove! I am sorry it did not happen, just to see.""

"And you would have seen," replied Barbicane. "It is known now there ought not to be any?" that the heat is only a modification of weakened by this refraction, and the When water is warmedthat is to say, when heat is added to it

for it explains every phonomenon of caloric. Heat is but the motion of atoms, a simple oscillation of the particles of a body. When they apply the which it had previously possessed? It is transformed into heat, and the break like which with answered Nicholl. becomes hot. Why do they grease the axles of the wheels? To prevent their

"Yes, I understand," replied Michel, run a long time, when I am swimming, when I perspiring in large drops, why there by its attraction." am I obliged to stop? Simply because my motion is changed into heat."

Barbicane could not help smiling at sis? Asked Michel. Michel's reply; then, returning to his "and the proof is, that the moon has

have been without our projectile as with a ball which falls in a burning state after having struck the metal plate; it is its motion which is turned into heat. Consequently I affirm that, so near the sun as by evaporation have raised a heat great enough to turn "Then," asked Nicholl, "what not probable."

would happen if the earth's motion were to stop suddenly?" "Her temperature would be raised

she would be at once reduced to vapor." of all that we do not know!" "Well," said Michel, 'that is a way asked Barbicane. "Three o'clock," of ending the earth which will greatly simplify things."

'And if the earth fell upon the sun?' asked Nicholl.

heat equal to that produced by 16,000 | well!" globes of coal, each equal in bulk to | Saying which Michel hoisted himself

"Oh, dear!" murmured Michel, jectile, and was consequently animat-the figures are coming." "the figures are coming."

tire radiation."

us to breathe, but it prevents us from | moon.

"Yes!" said Nicholl, "unfortunate- Michel. it looked like nothing more than a ful. "If there are inhabitants, they dark spot, drowned in the solar rays. must breathe. If there are no longer any they must have left enough oxylight! The next day at midnight the gen for three people, if only at the bottom of ravines, where its own weight ment when the moon would be full. will cause it to accumulate, and we will Above, the orb of night was nearing the line followed by the projectile, so as to meet it at the given hour. All lunar disc, which shone with intolerable

brilliancy. "By Jove !" said he, "it must be "Without considering," replied

"And to compensate that," said Barbicane, "the nights have the same larger; but the travelers' glasses not length; and as heat is restored by very powerful, did not allow them as radiation, their temperature can only yet to make any useful observations be that of the planetary space." upon her surface, or reconnoitre her

"A pretty country, that!" exclaimed Michel. "Never mind! I wish I ing conversation all about the moon.

Rech one brought forward his own contingent of particular facts; Barbicane

Michael

was there! An: my dear commands, it will be rather curious to have the earth for our moon, to see it rise on the horizon, to recognize the shape of and Nicholl always serious, Michel Ardan always enthusiastic. The projectile its situation its direction in the situation is direction in the situation is direction. jectile, its isituation, its direction, in- then to follow it when it is about to cidents which might happen, the precautions necessitated by their fall on to
the moon, were inexhaustible matters
of conjecture.

As they were breakfasting, a ques
As they were breakfasting to the project.

As they were breakfasting to the project.

tion of Michel's, relating to the projecthe three orbs are on a line, the earth tile, provoked rather a curious answer being in the middle. But they are from Barbicane, which is worth repeating. Michel, supposing it to be roughly stopped, whilst still under its formidable initial speed, wished to "And why," asked Nicholl, "is there "And why," asked Nicholl, "is there know what the consequences of the no total eclipse? Does not the cone of the shadow cast by the earth extend

"Yes, if we do not take consideration the refraction produced by the "It is an impossible supposition," terrestrial atmosphere. No, if we take said the practical Barbicane; "unless that refraction into consideration." terrestrial atmosphere. No. if we take the impulsive force had failed; but Thus let o be the horizontal parallel and p the apparent semidiameter-"Oh!" said Michel. "Do speak

plainly, you man of algebra!" "Very well;" replied Barbicane, "in popular language the mean distance from the moon to the earth being sixty "Why that enormous meteor which terrestrial radii, the length of the cone of the shadow, on account of the refrac tion, is reduced to less than forty-two radii. The result is that when then are eclipses, the moon finds itself be yond the cone of pure shadow, and tha the sun sends her its rays, not only from its edges, but also from its cer

> "Then," said Michel, in a merry tone, "why are there eclipses, when

atmosphere through which they pass its particles are set in motion."

"Well," said Michel, that is an in"That reason satisfies me," replied
Michel. "Besides we shall see when
New tell me. Barbiwe get there. New, tell me, Barbicane, do you believe that the moon is

"There's an idea !" break to a train, the train comes to a stop; but what becomes of the motion "But that idea does not spring from

"Well, then, I am a plagiarist." "No doubt about it. According to heating, because this heat would be that their ancestors inhabited the earth generated by the motion which is thus before the moon became her satelite. Starting from this fact, some scientific "perfectly. For example, when I have whose orbit will one day bring it so near to the earth that it will be held

"Is there any truth in this hypothe-

"Thus, in case of a shock, it would preserved no trace of the gaseous envelope which always accompanies "But," continued Nicholl, "before

becoming the earth's satelite, could not the moon when in her perihelion, pass if our projectile had struck the meteor, its speed thus suddenly checked would to get rid of all those gaseous substances?"

"It is possible, friend Nicholl, but "Why not?" "Because-Faith I do not know."

"Ah!" exclaimed Michel, "what to such a pitch," said Barbicane, "that hundreds of volumes we might make

answered Nicholl. "How time goes," said Michel, "in "How time goes," said Michel, "in the carth fell upon the sun?" sked Nicholl.

"According to calculation," replied as we are! Certainly, I feel I know too much! I feel that I am becoming a set of the conversation of scientific men such as we are! Certainly, I feel I know too much! I feel that I am becoming a pleasant and profitable. Full particulars free.— Barbicane, "the fall would develop a much! I feel that I am becoming a

object seemed as motionless as the pro- DANIEL F. BEATTY, Washington, N. J. d with the same ascending movement.
"What is that machine?" continued "They have even calculated," continued the imperturbable Barbicane, that the shock of each meteor on the bodies of space which our projectile bodies of space which our projectile PIANOS & ORGANS.

"And it does not roast us!" exclaim- with equal speed whatever be their weight or form; it is the air, which by "No," replied Barbicane, "because its resistance creates these differences in the terrestrial atmosphere absorbs four- weight. When you create a vacuum in tenths of the solar heat; besides, the a tube, the objects you send through quantity of heat intercepted by the it, grains of dust or grains of lead, fall earth is but a billionth part of the en- with the same rapidity. Here in space

is the same cause and the same effect." "I see that all is for the best," said "Just so," said Nicholl, "and every-Michel, "and that this atmosphere is a thing we throw out of the projectile useful invention; for it not only allows | will accompany it until it reaches the

> "Ah! fools that we are!" exclaimed "Why that expletive?" asked Barbi-

"Because we might have filled the projectile with useful objects, books, instruments, tools, etc. We could have thrown them all out, and all would have followed in our train. But happy thought! Why cannot we walk outside What enjoyment it would be to feel oneself thus suspended in ether, more favored than the birds who must use their wings to keep themselves up!" "Granted," said Barbicane, "but

"Hang the air, to fail so inopportunely!" "But if it did not fail, Michel, your density being less than that of the projectile, you would soon be left behind. 'Then we must remain in our car

how to breathe?"

"We must!" "Ah!" exclaimed Michel, in a loud "What is the matter?" asked Nicholl

"I know, I guess, what this pretended meteor is! It is no asteroid which is accompanying us! It is not a piece "What is it then?" asked Barbicane. "It is our unfortunate dog! It is

Diana's husband !" Indeed, this deformed, unrecognizable object, reduced to nothing, was the bagpipe without wind, and ever mount-(TO BE CONTINUED.)

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globes of coal, each equal in bulk to our terrestrial globe."

"Good additional heat for the sun," replied Michel Ardan, "of which the inhabitants of Uranus or Neptune would doubtless not complain; they must be perished with cold on their planets."

"Thus, my friends," said Barbicane, "all motion suddenly stopped produces heat." "And this theory allows us to infer that the heat of the solar disc is fed by a hail of meteors falling incessantly on its surface. They have even calculated—"

"Saying which Michel hoisted himself to the roof of the projectile, "to observe the moon better," he pretended. During this time his companions were watching through the lower glass. Nothing new to note!

When Michel Ardan came down he went to the side skuttle; and suddenly they hear an exclamation of surprise!

"What is it?" asked Barbicane.

"What is it?" asked Barbicane.

The president approached the window and saw a sort of flattened sack floating some yards from the projectile. This object seemed as motionless as the pro-

tinued the imperturbable Barbicane, "that the shock of each meteor on the sun ought to produce a heat equal to that of 4000 masses of coal of an equal bulk."

"What astonishes me," said Nicholl, "Is that the specific weight of the body, which is certainly less than that of the projectile, allows it to keep so perfectly on a level with it."

"It is equal to that produced by the combustion of a stratum of coal surrounding the sun to a depth of forty-seven miles."

"And that heat—"

"And that heat—"

"And what is reflection, "I do not know what the object is, but I do know why it maintains our level.

"And why?"

"And why?"

"And why?"

"And why?"

"Because we are floating in space, my dear captain, and in space bodies fall or move (which is the same thing)

"The myriametre is equal to rather more than associated fall or move (which is the same thing)

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Chatham Branch Railway, SPRING 1878.

O<sup>N &</sup> AFTER MONDAY, 29th APRIL, 1878, until further notice, Trains will run on this Railway, in connection with the Intercolonial Railway, daily, (Sundays excepted) as follows:— GOING SOUTH. No. 1 No. 5 Express. Accom'd

 
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Chatham Passengers wishing to return from the Junction by the same train may obtain Tickets for the trip both ways at one fare. Tickets for the Chatham Railway are sold at thunction Station (as well as at the Chatham end

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INTERNATIONAL STEAMSHIP COMPANY. FALL ARRANGEMENT. TWO TRIPS A WEEK. ON and after MONDAY, Sept. 23rd, and until On and after MONDAY, Sept. 23rd, and until further notice, the splendid sea, egoing Steamer CITY OF PORTLAND, 8. H. PIKR, master, will leave Reed's Point Wharf every MONDAY and THURSDAY Mornings, at 8 c'clock, for EAST-PORT, PORTLAND and BOSTON, connecting both ways at Eastport with Steamer BELLE BROWN for St. Andrews, St. Stephen and Calais. Returning will leave Boston every MONDAY and THURSDAY Mornings, at 8 o'clock, and Portland at 6 p.m., after arrival of noon train from Boston, for Eastport and St. John. No claims for allowance after goods leave the warehouse.

\*\*Eff Preight received Wednesday and Saturday only, up to 6 o'clock, p.m.
W. H. CHISHOLM, Agent.

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Chatham Livery Stables. Regular Coaches to trains leaving and arriving at CHATHAM RAILWAY STATION. Office and Stables - - - Water Street, Chatham

EXCELSIOR **ROOFING FELT** MANUFACTURING COMP'Y. J. W. PATERSON, - - MANAGER.

PITCH, TAR, ASPHALT, Dry & Tarred Paper, Always on hand in large quantities at lowest Market Prices. A. P. MCDONALR & CO., Sole Agents for Maritime Provinces, No. 17 ALEXANDRA BUILDINGS, NORTH WHARF, ST. JOHN, N. B.

NOTICE A LL persons having just claims against the Estate of the Late David Scott, of Newcastle, Farmer, deceased, are requested to render the same duly attested to the Executors within three months from date, and all persons indebted to said Estate are requested to make immediate payment to Manufs'., Builders, etc.



MIRAMICHI STONE WORKS. NORTHESK, MIRAMICHI,

New Brunswick. Joseph Goodfellow - - - - Proprietor.

ENCOURAGE HOME WORK

CARRIAGES. FARM WAGONS, EXPRESSES. factured of the very latest styles, first class stock, and workmanship second to none.

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REPAIRING. BLACKSMITHING. PAINTING, & TRIMMING

TERMS LIBERAL Please give us a call. BAKER & CO.,

ST. JOHN ST., - - CHATHAM.

CARD! THE UNDERSIGNED would beg leave to inform his Patrons and the Public generally that he PLANS, DESIGNS SPECIFICATIONS For any description of Building required.

PRICES REASONABLE!

THRESHING MACHINES WOOD CUTTERS SMALL & FISHER. WOODSTOCK, N. B

TO THE FARMERS OF MIRAMICHI We have been Manufacturing **IRON FRAME MOWERS** 

C. J. BRYDGES, Gen. Supt. Gov't Railways. Moncton, N. B., April 25th, '78. BEST MOWER combining greater excellence of mechanical sim-plicity together with greater durability and entire reliability for all the requirements of the field, than any other Mower extant.—In construction they are, similar to the celebrated Walter A. Wood's Iron Frame Mower, and the Richardson Buckeye, both American Machines. Of the former there are over 20,000 in use, and the extraordinary number of 20,000 were manufactured and sold last season, by the Wood Company of United States. We have over 500 of our manufacture now in use, every one of which (no exceptions) stands as a monument of the grand and unprecedented success of home manufacture and our efferprise. A list of our Agents in this section of the Province will be found appended, and farmers are requested to ask infor-mation of them relative to our Mowers in use in their respective localities, which will establish beyond doubt their unquestienable superiority over any other mower to be had in our market. o it as will be commensurate with its merits.

Let it be remembered we have no hesitation ll times, in entering into a friendly competition

e field with any other machine in our market. EGUARANTEE OUR MOWERS TO BE INFE. IOR TO NONE. Farmers would do well to quire prices and terms before purchasing else AGENTS: AGENTS:
Campbell'on—MALCC M PATTERSON.
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Fredericton, June 5, 1877.

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Manufacturing Silversmith and Electro-Plate 184 St. Peter Street, Montreal. Notice to Mill Owners THE Subscriber is prepared to furnish his PATENT LOG CARRIAGE SHIPPING MACHINE, to any parties requiring the same, of supply drawings, etc., to enable parties to manufacture it for themselves.

The above is in use in several Mills on this River, and perfect satisfaction is guaranteed.

Full information given by application to the Sul scriber.

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Doors, Windows, Blinds HOUSE FINISHING, or Inside or Outside. First Quality Pine or Cedar Shingles, and to Plane and Match Lumber, and Plane and Butt Clapboards.

Having a Moulding Machine I am prepared to supply mouldings of different patterns, and tood Joiner work generally, at reasonable rates, guaran teeing satisfaction. AT ORDERS SOLICITED AND ATTENDED TO. TO CALL AT THE Sash and Door Factory. PUBLIC WHARF, - - - - CHATHAM

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Chatham, 29th May, 78. I. MATHESON & Co. Engineers & Boiler Makers New Glasgow, N. S., Estimates Furnished for Engines and Boilers, Mill and other Ma-

MANUFACTURE am now orcpared to supply the Public with Superior Quality of

Scroll Sawing to any Pattern TURNING, &c.

PETER LOGGIE. Liberal Prices will be given for Pine and Cedar wood suitable for making Sawa. Shingles P. L.

JOHN SCOTT, Executors. Lower Newcastle, 16th July, '78.