ROUND THE MOON.

CHAPTER VI. QUESTION AND ANSWER. On the 4th of December, when th travelers awoke after fifty-four hours journey, the chronometer marked five o'clock of the terrestrial morning. In time it was just over five hours and 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, it looked like nothing more than a dark spot, drowned in the solar rays. No more crescent, no more cloudy light! The next day at midnight the earth would be new, at the very moment when the moon would be full. Above, the orb of night was nearing the line followed by the projectile, so as to meet it at the given hour. All

As to the moon, she was considerably larger; but the travelers' glasses not very powerful, did not allow them as yet to make any useful observations be that of the planetary space. upon her surface, or reconnoitre her topographically or geologically. Thus the time passed in never-ending conversation all about the moon. Each one brought forward his own contingent of particular facts; Barbicane and Nicholl always serious, Michel Ardan always enthusiastic. The projectile, its isituation, its direction, incidents which might happen, the precautions necessitated by their fall on to

move slowly; but, at the great distance

their relative size did not seem to

change. The sun and stars appeared

exactly as they do to us upon earth.

of conjecture. As they were breakfasting, a question of Michel's, relating to the projectile, provoked rather a curious answer from Barbicane, which is worth repeating. Michel, supposing it to be roughly stopped, whilst still under its formidable initial speed, wished to know what the consequences of the stoppage would have been.

"But," said Barbicane, "I do not see how it could have been stopped. "But let us suppose so," said Michel

"It is an impossible supposition," said the practical Barbicane; "unless the impulsive force had failed; but even then its speed would diminish by degrees, and it would not have stopped

"Admit that it had struck a body in space.'

"What body?" "Why that enormous meteor which

"Then," said Nicholl, "the projec-

tile would have been broken into a thousand pieces, and we with it." "More than that," replied Barbicane: "we should have been burned to death."

"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 that the heat is only a modification of motion. When water is warmedthat is to say, when heat is added to i

- its particles are set in motion." "Well," said Michel, that is an ingenious theory !"

"And a true one my worthy friend 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 break to a train, the train comes to a stop; but what becomes of the motion which it had previously possessed? It is transformed into heat, and the break becomes hot. Why do they grease the axles of the wheels? To prevent their heating, because this heat would be generated by the motion which is thus lost by transformation." "Yes, I understand," replied Michel

"perfectly. For example, when I have run a long time, when I am swimming, when I perspiring in large drops, why am I obliged to stop? Simply because my motion is changed into heat." Barbicane could not help smiling at

Michel's reply; then, returning to his theory, said,

"Thus, in case of a shock, it would 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, if our projectile had struck the meteor, its speed thus suddenly checked would have raised a heat great enough to turn it into vapor instantaneously."

"Then," asked Nicholl, "what would happen if the earth's motion were to stop suddenly?"

"Her temperature would be raised to such a pitch," said Barbicane, "that she would be at once reduced to vapor." "Well," said Michel, 'that is a way of ending the earth which will greatly simplify things."

"And if the earth fell upon the sun?"

asked Nicholl. "According to calculation," replied Barbicane, "the fall would develop a heat equal to that produced by 16,000 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-___' "Oh, dear!" murmured Michel,

"the figures are coming."

"They have even calculated," continued 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.

"And what is the solar heat?" asked

"It is equal to that produced by the combustion of a stratum of coal surrounding the sun to a depth of fortyseven miles.' "And that heat-"

"Would be able to boil two billions nine hundred millions of cubic myriametres* of water."

10,936 yards English (Ed.)

"And it does not roast us!" exclaimed Michel.

"No," replied Barbicane, "because the terrestrial atmosphere absorbs four-

"I see that all is for the best," said 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 us to breathe, but it prevents us from

"Yes!" said Nicholl, "unfortunately, it will not be the same in the moon. "Bah!" said Michel, always hope- cane.

ful. "If there are inhabitants, they tom of ravines, where its own weight not climb the mountains; that is all." And Michel, rising, went to look at the lunar disc, which shone with intolerable around the black vault was studded with brilliant points, which seemed to

"By Jove!" said he, "it must be hot up there !'

"Without considering," replied Nicholl, "that the day lasts 360 hours!" "And to compensate that," said Barbicane, "the nights have the same tunely! length; and as heat is restored by radiation, their temperature can only

"A pretty country, that !" exclaimed Michel. "Never mind! I wish I was there! Ah! my dear comrades, it will be rather curious to have the earth for our moon, to see it rise on the horizon, to recognize the shape of Nicholl. its continents, and to say to oneself, 'There is America, there is Europe; then to follow it when it is about to lose itself in the sun's rays! By-theby, Barbicane, have the Selenites the moon, were inexhaustible matters

"Yes, eclipses of the sun," replied Barbicane, "when the center of the the three orbs are on a line, the earth only partial, during which the earth, bagpipe without wind, and ever mountcast like a screen upon the solar disc, allows the greater portion to be seen. "And why," asked Nicholl, "is there

no total eclipse? Does not the cone of the shadow cast by the earth extend beyond the moon?'

"Yes, if we do not take consideration the refraction produced by the terrestrial atmosphere. No, if we take refraction into consideration. 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 terrestrial radii, the length of the cone of the shadow, on account of the refraction, is reduced to less than forty-two radii. The result is that when there are eclipses, the moon finds itself beyond the cone of pure shadow, and that the sun sends her its rays, not only

"Then," said Michel, in a merry tone, "why are there eclipses, when there ought not to be any?'

from its edges, but also from its cen-

"Simply because the solar rays are weakened by this refraction, and the atmosphere through which they pass extinguishes the greater part of them!

"That reason satisfies me," replied Michel. "Besides we shall see when we get there. New, tell me, Barbicane, do you believe that the moon is an old comet?"

"There's an idea!" "Yes," replied Michel, with an amiable swagger, "I have a few ideas of that sort.

"But that idea does not spring from Michel," answered Nicholl.

"Well, then, I am a plagiarist." "No doubt about it. According to the ancients, the Arcadians pretend that their ancestors inhabited the earth before the moon became her satelite. Starting from this fact, some scientific men have seen in the moon a comet whose orbit will one day bring it so near to the earth that it will be held

there by its attraction.' "Is there any truth in this hypothesis? Asked Michel.

"None whatever," said Barbicane, 'and the proof is, that the moon has 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 so near the sun as by evaporation to get rid of all those gaseous sub-

"It is possible, friend Nicholl, but not probable."

" Why not?"

"Because-Faith I do not know." "Ah!" exclaimed Michel, "what hundreds of volumes we might make of all that we do not know!"

"Ah! indeed. What time is it?" asked Barbicane. "Three o'clock," answered Nicholl.

"How time goes," said Michel, "in the conversation of scientific men such as we are! Certainly, I feel I know too much! I feel that I am becoming a

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.

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 projectile, and was consequently animat-

ed with the same ascending movement. "What is that machine?" continued Michel Ardan. "Is it one of the bodies of space which our projectile keeps within its attraction, and which will accompany it to the moon?'

"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."

"Nicholl," replied Barbicane, after a moment's reflection, "I do not know what the object is, but I do know why it maintains our level.

" And why?" "Because we are floating in space, testimonials, now ready, sent free. Established in Baltimore, 47 North Charles St. (Masonic Temple), my dear captain, and in space bodies 1859. *The myriametre is equal to rather more than a fall or move (which is the same thing)

with equal speed whatever be their weight or form; it is the air, which by its resistance creates these differences in 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.

"Ah! fools that we are!" exclaimed

"Why that expletive?" asked Barbi-

must breathe. If there are no longer projectile with useful objects, books, any they must have left enough oxy- instruments, tools, etc. We could have gen for three people, if only at the bot- thrown them all out, and all would have followed in our train. But happy will cause it to accumulate, and we will | thought! Why cannot we walk outside like the meteor? Why cannot we launch into space through the scuttle? favored than the birds who must use their wings to keep themselves up!" "Granted," said Barbicane, "but

how to breathe?"

"But if it did not fail, Michel, your density being less than that of the pro-

"Ah!" exclaimed Michel, in a loud

"What is the matter?" asked

"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 being in the middle. But they are the body of Satellite, flattened like a

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"Just so," said Nicholl, "and every-

"Because we might have filled the What enjoyment it would be to feel oneself thus suspended in ether, more

"Hang the air, to fail so inoppor-

jectile, you would soon be left behind.' "Then we must remain in our car?"

"I know, I guess, what this pretended meteor is! It is no asteroid which is accompanying us! It is not a piece

ing, mounting!

(TO BE CONTINUED.)

Tailoring Establishment in the Shop formerly occupied by a Mr. Anslow, Gentlemen wanting Clothes made to order for do well to examine his splendid assortment of

A FIRST-CLASS CUTTER. W. S. MORRIS.

THE Subscriber begs to intimate that he has a moved into his new premises, the ARGYLE HOUSE,

Stock of DRY GOODS. A special lot of DRESS Goods from 5 cents per yard GREY, WHITE & PRINTED COTTONS

These goods are worth special notice Ready Made Clothing, suits, for Men, Youths and Boys—or Coats Pants, or Vests separately, at less than ever before offered. A splendid lot of FELT HATS, in Black and Colored, all sizes, and at

The above, with many other leading lines, will

A lot of cheap FURNITURE, in Bedsteads, Chair Chatham, June 5th, 1878.

LADIES' Fringed Silk Scarfs in all the new mixed

devoting a very small portion of your leasure time to my interest. I do not expect you to canvas for

Any person who will make and forward me a list of the names of repersons of their acquaintance who wish

quiry, you can add to it. Address, DANIEL F. BEATTY, Washington, N. J.

dled Hoes, Mowers, Wheel Horse Rakes, Needle

Medical. HELLEBORE, &C., &C.,

PALLEN'S DRUGSTORE, Hellebore, a certain destroyer of Grubs; Canary Seed, Cuttle Fish and Saffron, Tapioca, Macaroni, Vermicelli, Sago, Broma, Royal Food, Ridges' Food, Arrowroot, Mushroom Ketchup, Yorkshire Sauce, White Wine Vinegar, Gelatine, Irish Moss, Iceland Moss, Isinglass, White Glue, Quinine Wine, Ext. Beef, Iron and Wine, Peruvian Syrup, Fellow's Com-

Cloves, Oil of Peppermint. GRAINING COLORS AND NO. 1 VARNISHES. COOL SODA WATER AND CHOICE CIGARS. Physicians' and other prescriptions carefully and ccurately compounded J. PALLEN & SON, DRUGGISTS. CATARRH

ANN OT be cured by Snuffs, Washer Local Applications. Thousands

TION AL CATARRH REMEDY. For sal y all cirnggists. Send stamp for Trea Five Years' Sickness Cured by Four Bottles of Constitutional Catarrh Remedy. Pain in Shoulders, Back and Lungs, and Droppings in Throat Disappear.
St. Armand, P. Q., Sept. 12, 1976. MR. T. J. B. HARDING. thing of the merits of your Constitutional Catarre Rem-Edy, I wish to inform you w hat it has done for me. I am 29 years old; had been out of health for about five years. I had employed three or four different doctors, and tried various medicines, without receiving any permanent beneft. but continued rather to grow worse, until last fall, when a had become so bad as to be unable to do an hour's work at had become so bad as to be unable to do an hour's work at a time. Had severe soren ess and pain under the shoulder blades and through the shoulders, with very lame back, and a feeling in my right lung as though there was a weight bearing it down, with contin ual dropping in the throat and down upon the lungs. Such was my condition when I commenced to take your Catar rh Remedy, one bottle of which eased my pains and gave me an improved appetite, and after taking four bottles I was restored to health, so as to be able to endure hard and continued labor, such as chopping and clearing land, at which I have been engaged the past season. My recovery I attribute solely, with Gody blessing, to the use of your Catarrh Remedy. Yours truly, Price \$1 per bottle.

Price \$1 per bottle.

ASK FOR LITTLEFIELD' SCONSTITUTIONAL CATARAS
REMEDY AND TAKE NO OTHER. Consumption Cured!! The undersigned an old retired physician having been permanently cured of the much dreaded disease Consumption by a simple remedy, is anxious to make known to his fellow-sufferers the means of



JOHN M'CURDY, M.D., PHYSICIAN AND SURGEON,

CHATHAM, N. B.

By reading and practicing the inestimable truths contained in the best medica SELF-PRESERVATION
Price only \$1. Sent by mail
on receipt of price. It reats of Exhausted Vitality, Premature Decline, Nervous and Physical Debility, and the endless concomitant ills and untold miseries that result therefrom, and contains more than 50 original prescriptions, any one of which is worth the price of the book. This book was written by the most extensive and probably the most skilful practitioner in America, to whom was awarded a gold and jewclled medal by the National Medical Association.
A Pamphlet, illustrated with the very finest

Steel Engravings-a mar-

sent FREE to all. Send

vel of art and beauty-

FOR It at once. Address PEABODY MEDICAL PLANSITUTE, No. 4 Bullinstitute, CONSUMPTION CURED. AN OLD PHYSICIAN, retired from active pra e, having ha placed in hi hands by an Eas dia Missionary the formula of a Vegetabl medy for the speedy and permanent cure of onsumption, Asthma, Bronchitis Catarrh. d all Throat and Lung Affections; 2! of all threat and Lung Affections; also Positive and Redical Cure for Nervous Delity and all Nervous Complaints, after have thoroughly tested its wonderful curative wers in thousands of cases, feels it his duty to take it known to his suffering fellows. Actuably this motive and a conscientious desire to give human says and a conscientious desire to eve human suffering, he will send FRE CHARGE to all who desire it, this recip h full directions for preparing any successful using. Sent by return mail by addressin h stamp, naming this paper. DR. C. STEVENS, BOX 86, BROCKVILLE, ONT.

DR. CHANNING'S

FOR THE BLOOD A HIGHLY CONCENTRATED SYPHILIS, RED JAMAICA SCROFULA, SARSAPARILLA SALT-RHEUM, DOUBLE IODIDES. Space forbids the giving ALL SKIN-DISEASES, place, in favor of this great nedicine. Is not one certificate, however, from an eminent and well-known TUMORS.

Physician like Dr. Bessey, of Montreal, sufficient to establish its superiority tures called Blood Purifiers OF THE offered by Druggists and LIVER AND T. C. STRATTON, Esq. Montreal, Feb. 1st, 1877 SPLEEN, I cannot but regard the formula from which Dr. Channing's Sarsaparilla is RHEUMATIC prepared, as one of the best possible combination AFFECTIONS, to constitute an effectual remedy, for the cure of Blood Impurities. So far as DISEASES my experience leads me with this remedy, I can OF THE testify to its great valu KIDNEYS, in the treatment of all Strumous and Cachectic BLADDER ctions, as Glandular En-AND URINARY

ange of skin affections; as a reliable preparation for general use as a blood pur ORGANS. fier, I know of none equal to it, combining as it does, all the imputed virtues of LEUCORRHŒA, Sarsaparilla, and several other valuable remedies, with the extraordinary a terative properties of the "Double Iodides," and of CATARRH, none that can be more highly recommended as , certain and reliable and I have every confidence that such a remedy for general use, taking the place of ALL DISEASES the many worthless nos-RESULTING trums of the day, will be a great boon to suffering hu-FROM A manity, and its use will be attended with the most sat-DEPRAVED isfactory results. It should be invaluable to persons be yond the reach of medical IMPURE

advice, and will, no doubt,

cal men throughout the

Respectfully yours,

become popular with Medi

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CONDITION

OF THE

BLOOD.

W. E. BESSEY, M Note.—Dr. Channing's Sarsaparilla is put up in large bottles, with the name blown in the Glass, and retails at \$1.00 per bottle, or Six Bottles for Five Dollars. Sold by Druggists generally, and most Country Stores. Be sure, and ask for Dr readily obtained in your loss lity, address the Gener-

377 St. Paul Street, Montreal

Perry Davis & Son & Lawrence,

MIRAMICHI BOOKSTORE, Knife Erasers Rubber Erasers. BLANK BOOKS, BLOTTING BOOKS, NOTE AND CAP PAPERS, ENVELOPES, INK STANDS, SPIKE & HARP FYLES, MARKING TAGS,

Offered at slight advance on cost.

Chatham, Aug. 20, '78

Law, etc.

Chatham Branch Railway.

SPRING 1878. O'N & 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 STATIONS. EXPRESS. ACCOM'DATION Depart, 11.35 p. m., 11.10 a. m. Chatham June'n, Arrive 12.10 a. m. 11.40

Depart, 12.25 GOING NORTH ACCOMMD'TION. EXPRESS. Depart 4.10 p. m., Depart, 5.00

Arrive, 5.30 CHATHAM & NEWCASTLE. Trains between Newcastle and Chatham run as follows-Miramichi (or St. John) time: 12.08 a.m. Chatham, 12.55 a.m. 4.15 a.m. N'castle, 11.10 a.m. N'castle, 12.20 p.m. - N'castle. 11.30 a.m. Chatham, 12.40 p.m. 2.10 p.m. Chatham, 5.30 p.m. 4.10 p.m. N'eastle, 5.17 p.m. The above Tables are made up on St. John (or Miramichi) Time. All the above Trains stop at Nelson Station, both

above Fourth (4th) Class, will be taken delivery of at the Union Wharf, Chatham, and forwarded free of Truckage, Custom House Entry or other charges. Close connections are made with all pas senger Trains both DAY and NIGHT on the Inter Express Train from Riviere du Loup on Saturday will run through to Halifax and St. John on ST. JOHN ST., - - CHATHAM, Express Train from Halifax and St. John for Riviere du Loup will remain over Sunday at Camp-AS Pullman Sleeping Cars run through to St. John on Mondays, Wednesdays and Fridays, and to Halifar on Tuesdays, Thursdays and Saturdays, and from St. John, Tuesdays, Thursdays and Saturdays, and from

Chatham Passengers wishing to return from the

Junction by the same train may obtain Tickets for

INTERCOLONIAL RAILWAY.

1878. Summer Arrangement. 1878.

Halifax, Mondays, Wednesdays and Fridays.

the trip both ways at one fare.

All freight for transportation over this road, if

Tickets for the Chatham Railway are sold at the Junction Station (as well as at the Chatham end of the line) and all passengers are requested to procure them before going on the Cars. Passengers who are not provided with Tickets will be charged extra

ON and after MONDAY, 29th APRIL, trains will leave CHATMAM JUNCTION STATION Express for St. John, Pictou, Halifax and Way Stations at 12.00 midnight Express for Rivere du Loup and Way Stations and all points North and West, at 4.38 a. m. Accommodation for Moncton and Way Stations, making connection at Moncton for Shediac and Point du Chene at 11.35 a. m. Late of Waverly House, St. John.) Proprietor commodation for Rivere du Loup and Way Sta-

lence, both as regards location and comfort. It s situated within two minutes walk of Steamboat NEW ERA," Landing, and opposite Telegraph and Post Offices. The Proprietor returns thanks to the Public for the encouragement given him in the past, and will Will run as follows until further notice. endeavor, by courtesy and attention, to merit the LEAVE NEWCASTLE 7.30 a. m.

12 noon.

"ANDOVER."

Moneton, N. B., April 25th, '78.

On Saturday evenings the "New Era" will leave Newcastle at 6.30 p. m., instead of 5.30 p. m. as on Will call daily on her first and fourth trips at Wilkinson's Wharf, and on her second and third trips at Kerr's mii May 7, 1878. TIME TABLE---1878.

2.00 p. m. 5.30 "

STMR.

Newcastle for Indiantown ndiantown for Chatham Chatham for Indiantown TUESDAY Indiantown for Chatham Chatham for Indiantown WEDNESDAY Indiantown for Chatham 8 a. m. Chatham for Indiantown

Indiantown for Newcastle

LIVERY kind of legitimate Banking done, and all Steamer will remain at Newcastle prepared to do L' the facilities of an Incorporated Bank afforded any work that may offer. FRIDAY Leave Newcastle for Redbank Redbank for Chatham Chatham for Redbank Redbank for Newcastle SATURDAY. Newcastle for Indiantown

> until the arrival of the "New Era" from Chatham CALL & MILLER, Owners. Newcastle, May 14, 1878.

> > 1878.

idiantown for Chathani

Indiantown for Newcastle

Chatham for Indiantown

INTERNATIONAL STEAMSHIP COMPANY FALL ARRANGEMENT. TWO TRIPS A WEEK. O^N and after MONDAY, Sept. 23rd, and until further notice, the splendid sea-going Steamer CITY OF PORTLAND, S. H. PIKE, master, will leave Reed's Point Wharf every MONDAY and THURSDAY Mornings, at 8 e'clock, for EAST-PORT, PORTLAND and BOSTON, connecting both ways at Eastport with Steamer BELLE

allowance after goods leave the warehouse. only, up to 6 o'clock, p.m.
W. H. CHISHOLM, D. T. JOHNSTONE,

BROWN for St. Andrews, St. Stephen and Calais

Returning will leave Boston every MONDAY and THURSDAY Mornings, at 8 o'clock, and Port-

and at 6 p.m., after arrival of noon train from

Boston, for Eastport and St. John. No claims for

CHATHAM RAILWAY STATION Office and Stables - - - Water Street, Chatham EXCELSIOR

Regular Coaches to trains leaving and arriving at

Dry & Tarred Paper,

name as this Book, but they have been prepared are requested to make immediate payment to

Farmer, deceased, are requested to render the same duly attested to the Executors within three months JOHN SCOTT, LEXECUTORS. Lower Newcastle, 16th July, '78.

PRICES REASONABLE! TO hatham, N. B. 4th April, 187