* VOLUME I.

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E REST. BY ALMONT BARNES.

Yea, let the soul, e'en as a too-loved bride, Turn gently from its sared body's side; Love slumber more than love; turn and be still, Now that they both, or not, have had their w.ll. What matters it? they both are fired to death.
They, married with the breathing of a breath,
Would gather up the feet and be at rest,
Content to be oblivious of the best;

And happier so all discord to clude, All bitter pain; in that great solicitude of that reaches like a sec, cool, infinite. Oer folded hands and lips to memory sweet.

A rea of grassy waves, feam-fringed with flow'rs, The tenderest gift of any of ours; For lo, the last of all, with floral wite We woo the mutest thing, the grave, to smile! If one goes gladly at the close of the day, Pats all the playthings of his world away Pulls down the curtain, lays his aching in t And weary body on a downy bed.

Divested of all care, but robed in sleep, Not any one will make it cause to weep; Then after one sigh, if there be no breath, What ross is kindler than the sleep of death? O soul, we each have wearied! Let us turn Both breas! from breast. There is no more to lea There may be dawn beyond the midnight's pall, But now aweet rest is better—best of all:

HETTIE'S FIRST VALENTINE,

It was a lover's meeting, a lovers' parling, when Robert Grey, walking across the fields in the summer twilight, found Hettie Holmes at the stile waiting for him. There was no light in her eyes when they caught sight of his tall. strong figure coming toward her, no smile on her lips when he stood near her waiting for her to speak. Humbly, yet searcely with the humility of a lover, he looked into the face before him, so very young and fair, so stern and pale. She looked at his handsome his tall form, and a shudder shook her from head to foot. Very small, very slight, there was yet a dignity in her voice and look as she said in a low

"I came to meet you once more, as you requested, Robert, but you must not think to move me from my resolu-

"You cast me off, then," he said, sadly and very very bitterly.
"It is your own act!"
"But, Hettie, I am not the only man

cation."
"But, Hettle, it was a festive time. All the young men were more or less under the influence of liquor."

"No: all, Robert. Thank Heaven, some of the mothers and wives wc_z rpared that anguish."
"Come, Hettic, don't be too hard on it does not be read once too often."
"It has happened once too often."
"It has happened once too often."

not ask. Thursday evening I saw

"It shall not bappen again, Hettie; upon my bonor it shall not!"
"Will you sign the pledge?" she

again. But a moment spoke in a gentler voice. "Robert," she said,

"Robert," she said, "you have known me only as a nursery governess to Mrs. Reid's children, an orphan and alone in the world. Your love was a generous one, for you are above me in position, have wealth, and might marry a far handsomer and richer girl than I

am."

"I love you," was the cimple reply, and there were tears in Hettic's eyes as she heard it.

"Because I believe you love me, Robert, I will tell you what I hoped might never have been known here. My home is so far away, all I loved there have been dead for three weary years, and I hoped the same might be buried forever. But, Robert, listen, my father died a drankard's death after living a drankard's life for fourteen years. I drunkard's life for fourteen years. can remember, though dimly, a hand-some house, my mother handsome and happy, well dressed, with every com-fort within her reach. I can well re-member the gradual downfall from one home to another, each poorer than the place his name to such a pledge as these last, the ware, comfortable clothing wre shes were persuaded to sign, growing sharber and shabbier, the seemed to him in a measure to place growing shabier and shabbier, the boundful table growing more and more boundful table growing more and more canty. Worst of all, Robert, child as twas, I could see the change from a noble, upright manhood to the brutality revolted.

The summer days were away, and of a drunkard. I have seen my mother of a summer days were away, and covering under blows, while I sbroak these two, loving each other fondly, and shivered in a hidden corner. I met but seldom, only to exchange conhave seen little brothers and sisters, one after another laid-in rude coffins, victims of want and suffering. I have seen my mother day hidding. I have seem my mother dis, bidding me carefor the driveling, prematurely old man, falling into his second childhood from drink. The end came when he died raving in the madness of delirium tremates and when I turned my back upon meds, and when I turned my back upon his grave I made a vow to my heart that sooner than tie my life to the slove of drink I would end it with my own hand.

"It is your master now, since twice it had another wrench at her heart-strings. has made you break a solemn pledge to

me."
"But, Hettie, can't you understand?
A man may take occasionally a little more perhaps than his head can bear, and yet never fall into the pitiable state you have described. Heavens, Hettie!" he cried impatiently, his temper paling under the steady resolution of the face that could be so gentle and seed.

that could be so gentle and sweet, "you pay me a poor compliment when you want me to bind myself by a written pledge not to make a beast of myself."

"I did not come here to exchange compliments," said Hettie, cadly, "but to tell you that I will never take up the urden that crushed my mother into her graye, voluntarily. Never with my eyes open will I link my life with that of a man who ever touches one drop of liquor. It is useless to repeat the old arguments, Robert. Moderate drinkers, occasionally intoricated may like for occasionally intoxicated, may live for years only moderate drinkers, but I will never be the wife of any man who has not bound himself by a pledge never to touch liquor in any form.

"A total abstinence fool !" speered Robert, now thoroughly angry.

"A total abstinence man," she said

firmly. "I hope you will be able to find the soft fool who will put his manhood un-der your thumb. For myself, I will never bind myself to a temperance

pledge!" he argued, "shall I, the richest man in M _____, who could marry almost any girl in my own set, bind myself to absolute slavery for a nursery governess, a girl who has not one penny beyond the salary Mrs. Reed pays her, a drunkard's child, by her own confes-sion? Never?"

He was very angry, and like most an-He was very angry, and like most angry men, very uncasonable. He forgot to think of the long courtship by which Hettic was won, of the gentle maidenly reticence that had been one of her greatest charms, of her own modest estimate of the merits that had won him. He forgot the times without number when he had compared her in his heart with all the maidens he knew finding her even prettier, sweeter, more winsome than any. He forgot how he loved her in his anger at her resolution.

"But, Hettie, I am not the only man who sometimes takes a glass more than is good for him," he pleaded.
"You are the only man that could work misery to me bydrankenness," she wall arrietly and atoraly. "It is an arrivative and atoraly. "It is a true one. You were taken home from the ball on Thursday evening helpless from intoxication."

"But, Hettie, it was a festive time. She had believed him all noble, true and manly when she had put her little hand in his strong one and promised to

"No. all, Robert. Thank Heaven, some of the mothers and wives well passed before the summer evening passed before the summer evening when (she turned from him, as she thought, forever, And only in the last few weeks had she known of that fear ful, deadly foe to her hope of happiness who was fastening his fatal hold used liquor, and I will keep my word. How often have you deceived me I will not ask. Thursday evening I saw deadly despair grasped her heart. She deadly despair grasped her heart. She thought of life long martyrdom from which she had escaped so littled time before, and she wrote to her lover sterply forbidding him to see her again, asked, a hope for the first time lighting and then spent night after night weepher soft brown eyes.

her soft brown eyes.

"Bind myseif that way! No! You must trust me, Hettie. I think a man his dismissal, and pleaded so penitently eight himself a coward when he puts that love conquered fear, and Hettie his name to such a paper, as if he was afraid of his own resolution."

"Twice you have trusted to your resolution, and I have trusted you. Twice you have failed to keep your promise."

The young voice was har I and stern again. But a moment later Hettie specific in a gentler voice.

The town what love conquered fear, and Hettie believed that never again would he yield to the temptation. Again the story came to her, and half maddened, unwilling to helieve the solemn pledge broken, he is the begged him to come to her and explain away the lie. But they have the read will away the lies had seen him! Too well what have what the read will away the lies. she knew what the red, wild eyes, the thick utterance, the recling step betok-ened. Only in answer to the most earnest petition had she nerved herself to grant one more interview, and it had ended in Robert's anger and the failure

of her own last hope.

She knew Robert Grey had a sense of honor as keen as her own. That he had failed in his promise to her was because he looked upon it as a pledge merely given to answer a girl's foolish whim. Once bound before men by a written pledge she felt sure he would keep it at whatevercest to himself. So she hoped to win him to sign such a pledge. There was a strong temperance revival in M—at that very time, and on this she built a hope not knowing it was her weakest bold.

For Robert Grey, young, wealthy and popular, looked upon all this temperance preaching as directed against the lower class, the sots who rolled in re-guters, the frequenters of village tay-one erns. That he, a gentleman, should the place his name to such a pledge as these

most in her quiet, uneventful life; but she had been educated in a hard school, and boxe her pain patiently. She grow Reed's nursery, she was sure of a home; and if there was no love there but that of the children she taught, so, too, there was no one to comment upon her languid step or pale checks. If she spent rany nights in weep ng, no one

Without a word of farewell, Robert Grey left M—to travel. No one knew exactly upon what errand the young man had gone. He had been in business, and had left that with an agent, giving no hint of when he would return, or whither haves bound. Or have a weather and he was bound. Orphaned, wealthy, and free, he had no permission to seek, his aunt caring for his house as she had done since his mother died in infancy.

done since his mother died in intancy.

Hettie had not realized how hope had still been strong in her heart until Robert was gone. While she could see him, though they met almost as strangers, she prayed and hoped still that he would return to her, and give her the pledge he would value most as his safeguard. But he had gone in anger, and the little governess looked a very hopeless future in the face. She was a less future in the face. She was a woman whose love, not easily won, would be given for a life-time, and no thought of another, to replace Robert, ever came to her faithful heart. She had given him up because she thought duty demanded the specifical but the duty demanded the sacrifice, but she could never cease to love him. Winter festivities left her often alone, Mrs. Reed took the children to their grandmother's for Thanksgiving, and again for Christmas week. In all this time Hettie was left in charge of the house. Some Christmas gifts were put upon her dressing table, testifying the chil-dren's love and Mrs. Reed's appreciation of her care; but though Hettie val ned these highly, they could not fill the dreary void in her heart.

Sometimes in her lonely weeping sucquestioned the resolution she had thought only duty, wordering if her sternness had driven Robert more into the path she wished him to avoid, whether her influence might not have saved him. Then she remembered her mother's prayers, her patience, her pleading, and feit how powerless a wo-man is when drink is her rival.

January wore away, and February was half gone, when one morning Alice Reed, in the midst of her babes, exclaimed: "It is St. Valentine's day, I wonder

if I shall have a valentine!"
"Papa will bring the mail at dinner, said ten-year old Mamy, gravely. "I know cousin Ben will send us a valentine ; he always does."

"Will you have one, Miss Heltie?" questioned Alice. "No, darling, I think not," Hettie

nor, and the children rushed out to meet him, Hettie heard him say: "Take this letter to Mies Hettie, Mamy.

A letter for her! There was no one in the wide world to write a letter to Hettie, except... A wild hope sprang in her heart. Could Robert have waitten? It was a bulky letter, and Mamy, eager to see if her father had a valen-tine for her, left Hettie alone to open it.

A letter, closely written, was inside, end folded within this a temperance please, and at the foot of it the bold signature, "Robert Grey."

The letter was Hettie's first love-letter, and I have no right to intrude upon her privacy; but in the spring, Robert Grey came back to M—— to find his bride, who put her hand in his, lovingly, trustingly, won by the love that had prompted the sending of her first valen-

The Suez Canal. A letter from Cairo to the Eastern

Budget, dated the "1st December, says: "The present state of the Sucz canal is far from satisfactory. The canal is neither completed nor in good repair, and if matters are left as they are at present it will become useless in a few years. It is broad enough to accommo-date three steamers abreast, but its lepth is so variable that one ship only can pass through it at a time. When a ng from Europe must wait at Port Said and if the ship gets aground on the sand the whole communication is stopped until it is set afloat again. This, of course, causes great injury to trade, and complaints are frequent. The chief cause of the evil is the want of money. The English, who use the canal more than any other nation, have long been thinking of getting the canal into their own hands, but a majority of two-thirds of the shareholders is necessary in order to change the management, and as the viceroy is the possessor of one-third of the shares, he has practically the custing vote. It is true that one third of the shares are also in the possession of Englishmen, but the attempts which have been made to induce the vicercy to dispose of his shares have hitherto b en fruitless. The khedive evidently fesred that England will become too owerful on the canal, and therefore profers the status quo. As for M. De Lescops, he continues to send protests to Constantinople about the canal dues, and his fluences are becoming acree every day. The cost of the main enance of the caual and die lging-works is from 15,000,000 to 20 000,000 francs a year, while his total receipts this year have only amounted to 30,000,000 france, and it is very uncertain whether they will be maintained at that figure. Mer chants here are unanimously of opinion that something must be done to prevent this useful work from being ruined, and that M. De Lesseps should either be allowed greater freedom of action, or he given an opportunity of se.ling the shares to a new company."

-According to Kepesy, the surgeon to the Austrian Polar expedition, chocalate, as a beverage, proved most valuable of all; the preserved meat and vegetables in tins being also of the "But, Hettie, that was an extreme sometic an explanation so long as able of all; the preserved meat and slave of drink. It will never be say said her A B C's.

But when the winter set in, Hettie strength and spirits. Tall Servents,

Mr. Conway, in his last Commercial letter, says: "There is no doubt that the English nobility have a way of employing servants which offers grand opportunities to rogues. In most cases the outside of the servants is the chief thing. If the coachman or footman is good looking in his livery and of the required dimensions his character is not inquired into. A well-known duke recently advertised for a footman of exactly five feet eleven and a half inches in height, whose sole business it would be to stand at the back of his coach beside another of like station A you'l, now in the employ of a lady of my acquaintance, applied for the advertise. position, and says that his character was not asked for; he was taken into the servants' hall and measured, and dismissed for lacking the half inch demanded by the duke. There is a passion for tallness in servants, and of one noble family at least it is a rule to admit no man servant under s'x feet. There are six of these eminent personages in their fine man-sion. 'The English servants are goodlooking neat, and constitutional flunkeys and flunkeyesses. They are very shrowd, and have their class rules as well defined as trades-unions. Downing streets does not possess more pigeon-holes and red tape than a mansion of the wealthy. An upper house maid would die at the stake before she would do a bit of work that came within the province of the under house-maid. A swell butler would throw up his postion in the face of the Lord Chancelor himself if he were expected to black his own boots. There are many boys of thirteen kept in brass buttons, and in many an instance the sole duly of this boy is to brush the clothes and boots of the butler the master of the house having his own separate valet. Of course it is not pride which has made the inflexible laws of disquette among these servants, by which they refuse to step out of an official prove of function. It is the determination of their class to preserve the conventional number of the servants required for any first-class househod. They particularly dislike servants from other countries, especivily the (Germans, because if well paid and well) feated they will do anything requests, in them."

he Effect of Exercise.

It is ound by observation that the effect of training," or the persistent use of g punastic exercises, is to enlarge the hear and lungs both in size and capacit. Archibald McClaren, super capacit: Archibald McClaren, super intendent of the Oxford symnasium, and author of "Physics: Education," says: "One of the army officers sent to me to be instructed in symnastics gained is one has in girth around the chest in cost than three months." That this gry the not explained by the mere emergement of the pectional muscles is proved by the increased volume it air which the lungs are enabled tojex pire, as is demonstrated by the sparometer, and post mortems the sprometer, and post mortems abundantly show an increased capacity as well as size in the heart and large blood tessels. The lungs increase in length and breadth, forcing the ribs outward and the diaphragm downwards. It is for this reason that athletes and gymnas's are enable to make prolonged and violent exertions without getting out of wind. The capacity of the heart and central arteries being enlarged, they can accommodate more blood. Their contractile power being increased by this new demand upon them, they are enabled to send on the current through the lungs with increased velocity, and thus by their greater capacity are able to oxygenize the blood as fast as it is supplied to them, and so no congestion takes place, and no incon-venience is felt. The normal capacity of the lungs of an adult male is about 200 cubic inches. It is computed that an enlargement of three inches around the chest gives an increase of fifty inches of lung capacity.

By the Pacific.

When the tide is out, Panama lies stranded an inland town. It looks odd to see vast troops of buzzards blackening here and there the seaweed -- but they are the reavengers of the tropics; their lives protected by law, and their swift scent for carrion is really the protection of the people from miasmas that else would coon be pestilence. Panama is a dence little 1 huddled upon a rocky peninsula jutting into the sea from the base of the volcanic Aucon. Leaving the pier, one follows a rather straggling street, which winds among negro huts, grog-shops and many curious varieties of real estate and live stock, until it delivers him within the walls -no gates are visi-ble, nar does any one exactly know when he gets inside, excep: by a vague feeling that he is in-where semblances of paving and side walks appear; there is in occasional corner with its side street the loures indulge in verandas, some times of three stories; queer looking shops—including some where beef is sold by the yard—get thicker; muler, donkeys, dogs, poultry, pigs, pickannin-nies, grinning girls and turkey buzzards abovad, and here and there an old church is seen, until, of a sudden, you are in the piaza; the cathedral, with its two towers with their shell-ornamented pyramidal termini, on whose lofty sum mits—as well as in all inferior crevices, ledges, and all other possible places—grass is growing, and plants are flourishing and blooming with the most astonishing nonchalance, is on your left; the not very magnificent state house and palace of justice is on your right, and beyond it is what is left of the old. and what is finished of the new "Grand"

hotel of Panama. The average traveler finds little beauty in his surround-ings; but there is a certain newnoss about the picture which pleases him-for the sense of novelty is a pleasure in

The Polar Wave.

The cold weather we have been having of late in those latitudes is as the balmy breath of the May time in comparison with what they have been having in Montana, according to a correspondent, "Writing from Silver Bow, in that ter-ritory, he says that the previous midnight the thermometer marked fifty-six degrees below zero. That was the night when Chinamen and whisky froze, as reported by telegraph. During a severe cold anap in Iowa some years ago, when the mercury ranged for many days between fourteen and thirty-six degrees below zero. the teamsters used, so it was currently reported, before starting on their long trips to buy a gallon of whisky, bore a hole through it and sling

whicky, bore a hole through it and sling it by a string to the coupling pole of the wagon; then they could knock off a piece with a hatched when they wanted a drink. The Montana correspondent tells of his success in freezing mercury. A tumbler full of the ordinary fluid metal was exposed to the air on a cold night. At forty degrees by the thermometer it was still fluid; at forty-one degrees it had begun to harden on the degrees it had begun to harden on the outside; at forty-two degrees it was solid. Of course spirit thermometers are employed there by weather observers. One of them, a very careful man, wishing to be accurate, ordered a spirit thermometer from New York, to be made with special attention to correct-ness in the scale. It c me in due time, and was a very fine instrument, but was only graduated to thirty degrees below zero. The disgusted meteorologist pronounced it a good enough summer ther-mometer, but not calculated for northern Montana.

A Chinese Comedy.

The San Francisco Call speaks of a erformance by a newly imported troupe of Chinese actors and gymnasts as fol-lows: "The piece presented was evi-dently in the low comedy line, indging from the great merriment of the audience, excited by the dialogue; but the leading features were the grand military spectacles, jugglery, and acrobatic performances. At different times Chinese soldiery, of the old style, appeared apon the stag:

or fifty, and exhibited the mode of warfare with spears and other ancient weapons. The fencing exercises and com-bats with the double swords display marvelous dexterity and agility, and demonstrate that the Chinaman on his native heath, and with his own style of weapon, is a dangerous antagonist. The mode of combat with hatcher, and meat choppers and the utility of the displayed. The jugglery, which consists in running each other through with awords and Envars, braining one another with meat-axes, etc., is thrilling, but rather ghastly in its effect, and most wonderfull deceptive. The blood is seen streaming down the naked bodies of the apparent victims in appearance that is wonderfully real, and, after both ing decently stain in one of the terraic combats, it is quite surprising to ob-serve the deceased arise again, and go prancing off the stage with a meatcienver stuck in his skull.

A Parisian Extravagance. Writes a Paris correspondent : "Fur-

ulture and utensils for doll houses are in great request this winter, and a large plesale house that is exclusively devoted to this branch of production has done a larger trade this year than ever before. This house employs 60 hands, male and female, all the year round, and turns out this class of toys to the amount of £80,000 per annum. The cher pest 'set' of 'furniture' turned out by this firm consists of a box made of deal, a glass decenter, two dishes, and four plates of china, two glasses, a pewter dish cover, two knives, forks, and spoons; the whole for three sous. From this price the rets mount up by regular gradations until they reach the about brice of £240 no fewer than six 'sets' dolls' house-fittings have been sold this winter by this firm at this price. These miniature articles, carefully arranged in cases of morocco leather, consist of every variety of ob-ject in silver, silver gilt, fine porcelain, sparkling crystal, delicate leather, costly woods, ivery, bronze, silk, velvet, &s., the whole thing being of the most exquisite workmanship. The same house rolls the highest classes of dolls, with their trousseaux, at the modest price of £120 each."

ORIGIN OF THE AYRSHIRES.—A poor larmer in Scotland, in 1750, finding it almost impossible to subsist, took great pains to have his children drive his cow where she could eat the richest and hickert grass, to house her in the win-tor, and to feed her with carefully-stored hay; in fine, took unheard of care of his cow. The grateful animal rewarded her owner with a fine calf and an unusual abundance of balk, and thus the celebrated breed of Ayrshire cows was produced, though it was not till about the first of the present century that it was brought to perfection.

-Human intellect, though varying in capacity in different individuals, has its limits in all plans of enlargement by acquisition; and these limits cannot be transcended without aggregate deterioration in distracting the attention, over loading the memory or overworking the brain and sapping the foundations of health.—Jacob Biyclow, M. D.

FACTS AND PANCIES.

—A New York man was recently sentenced to three months' imprisonment for barbarously killing a cat.

—Cincinnati girls refuse to kiss their beaux who were shaved by female barbers, and so the enterprise was starved to death.

-A woman recently died in Alabama leaving to somebody, it is said, an inheritance of no less than 287 hoop-skirts.

That woman was as well hooped as an imported barrel of French brandy.

—"I'd like to give something to the poor," remarked a Toledo lady. "It's hard times and they must be suffering, but I've got to use this \$40 to buy another switch."

—There's nothing in women, after all. Gail Hamilton and George Sand have both said they would willingly relinquish their talents if the sacrifice would make them pretty.

ri -A gentleman by the name of Harott has been haunting the approaches to a certain newspaper office in San Francisco, looking for the editor who called his Clara (nee Morris) a "Blonde

...-Walt. Whitman has begun to sing about the cold weather.

I howl a whoop, And with the howlment of the whoop I yip a yawp, And with a million chill-betingled velus I bow me to the winter's sovereignty; O bitesome breeze! O quakesome waves! and all conglomerate elements of gelid things!

-An observant usher in one of th —An observant usher in one of the theaters has got so he can tell a man's business by the way he asks for programme. A real estate man wants a "description of the play," a hotel proprietor "the bill of fare," a politician "the run of the play," an editor "the points of the play," and a lawyer always asks: "Will you be good enough to hand me a bill of particulars?".

—In one of the courts, lately, there was a long and heated discussion between the counsel as to whether a witness should be allowed to answer the following question: "What did Mary say?" Three judges took nearly an hour to decide the point, and at last answered it. The question was put to the witness by the defense, and the replwor

and well-bred comthey try to be pleased; it auxbody tries to actonish them they have the courtesy to be actonished; if people become tiresome, they ask to people become transfer or sing, or what they don't criticise." And Juni Ruskin holds that this in the way it should be in the world ns well as in the drawing-room. He does not like critics; and yet what else is be

- A coincidence in the matter of names — A coincidence in the matter of names will be noticeable in the senate of the forty-fourth congress. There will be two Camerons, two Joneses, and two Morrills, and, with the exception of a t. two Johnsons—Senator Johnson, of Virginia, and Senator Johnson, of Ten-nessee. Did not the term of Mr. Hamnessee. Did not the term of Mr. Hamilton, of Maryland, expire on the 4th of March next, there would have been no less than five couplets of similar names in the senate.

-It's a deep mystery-the way the heart of a man turns to one woman out of all the rest he's seen in the world, and makes it easier for him to work seven years for her, like Jacob did for Rachel, sconer than have any other woman for the arking. I often think of these words: "And Jacob served seven years for Rachel, and they so led but a few days, for the love he had for her." -George Elliot. -A rich old widower of Oswego told

a young girl there to drop her other beaux. She obeyed. He often took her out riding, and assured her that "when we get ready we can go off sndden like, and surprise the gossips. The young lady did not demur. Then the rich old widower popped off very sudden like, and married a rich old widow about his own age. The jury is sked for \$15,000 damages.

-Dr. Wilkes, in his recent work on physiology, remarks that "it is esti-rated that the bones of every adult person requires to be fed with lime enough to make a marble mantle every eight months." It will be perceived, therefore, that in the course of about ten years each of us cats three or four mantlepieces and a few sets of front door steps. It is awful to think of the consequences if a man would be shut off from his supply of lime for a while and then get loose in a cemetery. An ordinary tembstone would hardly be enough for a lunch for him.

In a few remarks upon the action of lightning-conductors, Secchi, the well-known astronomer, describes the storm of November, 1872, in which the cathedral and palace of Alatri were struck by lightning, these structures having been free from such visitations for many years. The damage done on this occasion was, as he shows, due in great measure to the fact that the lightning-rods, instead of being directly connected with the metalic gutters and other portions of the roof, were isolated from them. The fluid, therefore, cought to make its own way to such other good conductors as were near. After quoting other instances, he expressed the opinion that the conditions most favorable to safety consist in join-ing the lightning-rod directly to all the metallic portions of the roof, and especially to the rain-water pipes, in order that greater facility may be offered to the electric fluid in its passage to the