WEB OF STEEL

By CYRUS TOWNSEND BRADY FATHER AND SON

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YOUNG MEADE MAKES A DISCOVERY WHICH TERRIFIES HIM AND HE TRIES TO SAVE MANY LIVES

The Martlet Construction company is putting up a great international bridge planned by Bertram Meade, Sr., a famous engineer His son, Bertram Meade, Jr., resident engineer at the bridge, is in love with Helen Illingworth, daughter of Colonel Illingworth, president of the construction company, and they will marry as soon as the bridge is complete. The young engineer questioned his father's judgment on the strength of certain important girders, but was laughed at. His floubts are verified, however, and he makes desperate efforts to stop construction, fearing great loss of life.

"Well, he doesn't know of this,"

tomorrow morning. Wire him if you

"You won't put any men at work or

"Not until tomorrow morning," said

Abbott decisively, "if I don't hear from

He Stopped, Feeling Suddenly III.

somebody at Martlet tomorrow morn

"I take orders from the Martlet com

pany and no one else," was the short

answer with which Abbott turned away

in finality, so that the other realized

Meade wasted no more pleas on Ab-

bott. As ill luck would have it some-

thing had happened to the telephone

and telegraph wires between the city

and the camp. Mende dressed himself,

got a handcar, and was hurried to the

line. From there he sent a telegram

and tried to get connection with New

by a natural impulse, in default of

jumped on the midnight train for New

York. He would go himself in person

There had been some friction be-

tween Abbott and Meade before on oc-

casions, not serious, but several times

Meade had ventured to suggest some-

young colleague. Abbott never forgot

that Meade had really no official con-

nection with the building of the bridge,

though he could not help liking the

Meade had not gone about it in the

"But if my father wires you-"

ing the work goes on."

the interview was over.

CHAPTER IV-Continued.

for jacks and said rather grudgingly. was summer and the sun had set, but the long twilight of the high latitude "Well, I can hook on to the antic structure of the bridge. For all buckles," ts airiness it looked as substantial as the Rock of Gibraltar, and it looked too much, Abbott," Meade retorted and fears that he would lose the womeven more substantial if possible, as promptly. "It isn't possible," the man, seizing a lantern and, forgetting his weakness, ran down be- scheme," returned Abbott indifferently, meath the overarching steel to the pler- as if humoring the other, "We can't head, climbed up to the shoe, and wait, we've got to hurry it along. crawled out on the lower chord as rap- There's going to be no penulty against us on account of me. I won't stop work dly as he could.

Meade needed but one glance to see a minute," he explained patronizingly. the deflection from the right line in "There will be a bigger penalty the important member. For all his you don't do what I say, and paid in ears of inexperience he was a better another way, in blood. And it will be trained engineer than rough-and-ready | your fault." What appeared to the latter in the center of the member of an ever. inch and a half at least, although unnoticeable to an untrained eye. It had all come in the last week. They had extended the suspended span far out only a kid engineer. Your father apbeyond the edge of the cantilever and, proved of the plan of this bridge. I been cut out of his countenance by the with the heavy traveler at the end, guess we can afford to bank on his pruning knife of time. the downward pressure on the great reputation rather than yours." lower chord members had greatly in-

It was a terribly heavy bridge at est. It had to be to sustain so long a man, the longest in the world. And like, He'll wire Illingworth down at the load, continuous and increasing, Martlet and we'll get word what to horror, had brought about this, to the layman trifling, to the engineer mighty, bend. If it bent that way under that much of a the bridge untilload, what would it do when the whole great span was completed and it had to carry its transitory loads of traffic eside?

When two different views meet it is atural that age, experience, reputaion and authority shall carry the day. Athough Bertram Meade, Jr., had ever been persuaded in all particuars of the soundness of his father's design, and could not be persuaded, that vast experience, that great repuation, that undoubted ability with its ong record of brilliant achievement had at last silenced him. He had ac cepted through loyalty that which he could not accept in argument. Once eccepted, he acted accordingly, heart-By seconding and carrying out the rishes of the older and, as the world would say, the abler man.

The thing that smote the engineer hardest was that this weakness was exactly what he had foreseen and ointed out. It was the possibility of the inability of this great member to carry the stress that young Meade had duced by using the formula of Schmidt-Chemnitz. It was this point, and this point particularly, that he had dwelt upon with his father and which they had argued to a finish. So possible structural weakness of this member that he had put himself on record in writing to his father. The old man had overborne him and now the little curve, one and a half to one and three-quarter inches in sixty feet, established the accuracy of his unheeded contention. Vainly now he wished he had not let the old habit of affection and the little touch of awe with which he regarded his father perstade him against his reason.

He stopped, feeling suddenly ill, as very nervous high-strung man may eel under the sudden and unexpected physical shock. He was weak still nearest town on the railroad's main from the tonsilitis. He leaned against the diagonal at the end of C-10-R, clinging to it tightly to keep from fall- York by telephone, but failed. Moved ing. Abbott, who had followed more slowly, stopped by him, somewhat sur- other means of communication, he prised, somewhat amused, more indignant than both. "Abbott," said Meade fiercely as the and attend to the grave affair. Noth-

erecting engineer joined him on the ing whatever could be so important. plerhead, "If you put another pound of load on that cantilever I will not be answerable for the consequences." "What do you mean?"

"That deflection is nearly two inches thing which to Abbott seemed useless deep now and every ounce or pound of and unnecessary, and the fact that added weight you put upon it will make subsequent events had more often than It greater. Its limit will be reached not proved Meade's suggestions to be mighty soon. If it collapses-" he worth while, had not put Abbott in althrew up his hands—"the whole thing together the best mood toward his

"Yes, if it collapses, that's true," said Abbott, "but it won't." "You're mad," said Meade, taking and that he was only there as a special

unfortunately the wrong course with representative of his father, and al-"Why, boy," said Abbott, "that bridge Founger man. Abbott would have been

will stand as long as creation. Look better pleased if he had been left bridge?" at it. That buckle doesn't amount to alone. mything. It is only in one truss any-The corresponding member in right way to move a man of Abbott's the other truss is perfectly straight."
"Abbott, for God's sake, hear me,"

temperament. He realized that as he a the bridge. Stop work until we can mendous driver himself and naturally

"Don't talk to me, boy. I know my Meade had received the announcement less. I tell you I can jack it back. more quietly and if he had by some hat member's big enough and strong subtle suggestion put the idea of danwhat are you going to jack

ger into Abbott's mind all would have been well, for when he was not blind-Meade asked, and for the ed by prejudice, or his authority or his Meade asked, and for the ed by prejudice, of his data was a sen-time a little of Abbott's contempt ability questioned, Abbott was a sen-

suddenness, Abbott had only usually mentioned it at the close of a man lengthy conversation regarding the lengthy conversation regarding the progress of the work as if it were a younger man had not said, "I told you she ran on, realizing that some trouble flagers on the key. Before he pertended and seeking to help her give the faintest pressure to the

Therefore he could see nothing but How he should handle his superior, or rather the bridge's superior, was the man uncertainly, last thing in his mind. Aside from his natural pride in his father and in the bridge and his fear that lives would be lence of the shock. His father was lost if it failed, unless he could get old, broken, helpless, dependent, at the men withdrawn, there was the last.... complication of his engagement to "Give me the blank," he answered. omplication of his engagement to leten Hingworth.

"Give me the blank," he answered.
"Til wire in your name."

He repeated the telegram that he

But Meade was out of the house. It for it seemed like a concession to the His mind was in a turmoil. Prayers words as he signed the old man's that he would get to his father and the name to it: "Well, I can hook on to the opposite bridge people in time to stop work and still lingered. Before him rose the gitruss and pull it back with turn prevent loss of life, schemes for taking draw men and traveler.

Put no more load on the bridge. Withmatie structure of the bridge. For all backles." up the deflection, strengthening the

CHAPTER V.

The Death Message.

Meade, Sr., was an old man. Al-hough unlike Moses his eye was dim and his natural force abated, the evidences of power were still apparent, specially to the observant. There rose the broad brow of the thinker. His power of intense concentration was ex-Now both men were angry and in pressed outwardly by a directness of as a slight deflection, Mende saw in its their passion they confronted each gaze from the old eyes which, though true relation. There was a variation other more resolute and fierce than faded, could flash on occasion. Other facial characteristics of that snow-"Look here," said Abbott, his flery crowned, leonine head, which bespoke temper suddenly breaking from his that imaginative power without which control, "who are you anyway? You're a great engineer could not be in spite of all his scientific exactitudes, had not

> He was a great engineer and looked sitting alone in his office with the telegram crushed in his trembling nobody is going to be on there until hand, despite the fact that his gray face was the very picture of unwonted weakness, of impotency, and abiding horror. The message had struck him a terrific blow. He had reeled under it and had sunk down in the chair in a state of nervous collapse.

The telegram fairly burned the clammy paim of his hand. He would fain have dropped it yet he could not. Slowly he opened it once more. Ordinarily, powerful glasses stimulated his He needed nothing to read it again. It is doubtful whether his eyes saw it or not and there was not need, for the message was burned into his brain.

He read again the mysterious words:

There could be no mistake. The name of his son, the young engineer, the child of his father's old age. oov, as the old man thought of him, ad ventured to dispute his father's figures, to question his father's design, but the elder man had overborne him with his vast experience, his great authority, his extensive learning, his high reputation. And now the boy was right. Strange to say some little thrill of pride came to the old engineer at that

Pennsylvania among them, and only by chance had he come down to the office the door and confronted Johnson. that morning. The wire was dated the night before. And he recalled that the state from which the bridge ran did not obšerve that day as a holiday. They would be working on the International as usual unless-

One and three-quarter inches of deflection! No bridge that was ever made could stand with a bend like that in the principal member of its compression chord, much less so vast a structure as that which was to span the greatest of rivers and to bring nation into touch with nation. He ought to do something, but what was there to do? Presently, doubtless, his mind would clear. But on the instant all he

could think of was the impending ruin. The Uplift building, in which he had his offices, was mainly deserted on account of the holiday. The banks were closed and the offices and most of the shops and stores. It was very still in the hall and, therefore, he heard distinctly the door of the single elevator in service open with an unusual crash. then the sound of rapid footsteps along the corridor as of someone running. They stopped before the outer door of the suite which bore his name. Instantly he suspected a messenger of disaster. The door was opened, the office was crossed, a hand was on the inner door. He sank back almost as one dead waiting the shock, the blow.

"Father," exclaimed the newcomer. You got my telegram?" The other silently exhibited the crumpled paper in his hand.

"What have you done?" "It's a holiday, don't you know? I only got it a few moments ago. The

"But for how long?" "I can't say. The Martlet's resident engineer is mad. I begged, threatened, Meaded Meade in desperation. "Draw New York. Abbott was a man who kack the traveler and put no more men could not be driven. He was a treto withdraw the traveler, but he won't that the Bridge company remembers to withdraw the traveler, but he won't that the Bridge company remembers to withdraw the traveler, but he won't that the Bridge company remembers to withdraw the traveler, but he won't that the Bridge company remembers to withdraw the traveler, but he won't that the Bridge company remembers to withdraw the traveler, but he won't that the Bridge company remembers to withdraw the traveler, but he won't that the Bridge company remembers to withdraw the traveler, but he won't that the Bridge company remembers to withdraw the traveler, but he won't that the Bridge company remembers to withdraw the traveler, but he won't that the Bridge company remembers to withdraw the traveler, but he won't that the Bridge company remembers to withdraw the traveler, but he won't that the Bridge company remembers to withdraw the traveler, but he won't that the Bridge company remembers to withdraw the traveler, but he won't that the Bridge company remembers to withdraw the traveler, but he won't that the Bridge company remembers the bridge. lay awake on the sleeper speeding to he could not take his own medicine. If I was only a cub."

"But the camber?" "He said, 'I'll jack it into line again.' Like every other engineer who sees a big thing before him it looks to him as if it would last forever. I tried to get you on the telephone here and at the house last night and failed. I wired sible man thoroughly to be depended you. Then I jumped on the midnight upon. But the news had come to Meade express and"What is to be done?" asked the old

"What shall we say?" a:

ould not sleep a moment on the train. had sent to his father and added these

"I can't understand why we don't an, stayed with him through the night. room in his agitation. and now we can't get a telephone connection, or at least any answer after our repeated calls."

"It's a holiday there as well as here," said the older man. "There is no one n the office at Martlet."

"I'll try the telephone again. Some one may come in at any time. He sat down at the desk, and after five minutes of feverish and excited waiting he finally did get the office of

the Martlet Bridge company. By a happy fortune it appeared that some me happened to come into the office

"This is Mende," began the young Into the Room Burst Colonel Illington. man, "the consulting engineer of the International bridge. Well, at ten- ous had happened, and she turned a thirty this morning I sent a telegram little pale herself as she asked the to Colonel Illingworth and an hour question, not dreaming what the anlater I sent another. What's that? swer would be, Both telegrams are on the desk? Give me your name-Johnson-you're one ping toward her and taking her hands of the clerks there? Well, telephone again, "we're in awful trouble."

Colonel Illingworth at his home— "If it is any trouble I can share, president there—the superintendent— look which set his pulses bounding—at anybody? How far away are they? least she was to be depended on-Twenty miles! There's no telephone? "you know you can count on me, Now, listen, Johnson, this is what you must do. Get a car, the strongest and fully. fastest you can rent and the boldest chauffeur, and a couple of men on horses too, and send up to that place fall." Illingworth that he must telephone me | Was that all? came into her mind. and come to his office at once. There That was serious enough, of course, are telegrams there that mean life or but it would not matter in the long death and the safety of the bridge, run. Helen realized the awful gravity, You understand? Good. He says he'll the terrible seriousness, of the situado it, father. We've done all we tion of course. The bridge meant much can," he added. He hung up the re- to her even if in quite a different way. One and three-quarter-inch camber in ceiver, sprang to his feet, looked at It was there he had saved her from the his watch. "It's so important that I'll awful fall. It was there that he had name that was signed to it was the go down there myself. I can catch the told her that he loved her. The bridge two o'clock train, and that will get me there in two hours. You stay quietly here in the office and wait until I get gagement, or their marriage, had been to stew! in touch with those people. I mean, I want to know where I can reach you instantly.

"I'll stay right here, my boy. Go, and God bless you."

As usual when in a great hurry there were unexpected delays and the clock on the tower above the big structural shop was striking five when a He tried to find out from the tele- rickety station wagon, drawn by an exgram when it had been sent. That day hausted horse, which had been driven was a holiday—the birthday of one of the worthies of the republic—in some door. Flinging the money at the driver, of the United States, New York and Meade sprang down from his seat and

> "Did you get him?" he cried. "He isn't here yet. I sent an autonobile and two men on horseback and-

> The next minute the faint note of the valley. "I hope to God that is he," cried the

> young engineer, running to the win-

on, peering over his shoulder. "And



All He Could Think of Was the Im pending Ruin.

there are people in it. It's coming this

"Would you mind telling me what the matter is, Mr. Merde?"
"Matter! The International—"

"Bert," exclaimed a joyous voice, as Helen Illingworth, smiling in delighted surprise, stepped through the open door and stood expectant with outstretched hands.

'oung Johnson was as discreet as he umpt and ready. He walked to except on direct orders from here." | the red off of it."

ward them. After a quick glance at the other man, Meade swept the girl "Telegraph Abbott at once." to his heart and held her there a mereleased her. The woman's passionate look at him was caress enough and his her with emotion. Johnson coughed under the terrible circumstances, and turned as the two separated. It was the woman who recovered her it means-Johnson, are you a telegraph

bridge when I came into the room?" "Take the key," said the colonel, the slight but unmistakable emphasis first of the men. was lying down this afternoon, but the direct wire ran from the bridge when I awakened my maid told me company to the telegraph office, "He lover by giving him time. "I knew ment, it here. I didn't expect to see you. Oh. | clent.

"Helen," said the young man, step

He isn't at home? Is the vice Bert," said the girl, flashing at him a

"I know I can," he exclaimed grate-

"The International bridge is about to

The color came to her face again. run. Helen realized the awful gravity. affection in her memory. Their enmade dependent upon the successful completion of the bridge. What of that? The proviso meant nothing to her when she looked at the white-faced tan bark to replace partially expensive agonized man to whom she had given

"It is terrible, of course," she said quietly. "But you can do nothing?" "If I could, do you think I'd let the

bridge, and you, go without-" "I'm not going with the bridge," was her quick and decisive interruption.

They had both forgotten the presence of young Johnson, who was not and that the quality of the finished only decidedly uncomfortable, but desperately anxious. He was about to salely from racs. Members of the forspeak when, into this already broken est service who have been conducting cene, came another interruption.

There was a rush of wheels on the driveway outside, the roar of a motor. Before Meade could answer the state ment, into the room burst Colonel IIin automobile horn sounded far down lingworth. He was covered with dust. his face was white, his eyes filled with anxiety. The character of the summons had disquieted him beyond measure. Back of him came Severence, the vice president, and Curtiss, the chief

"Meade, what of the bridge?" he burst out, with a quick nod to his laughter. Colonel Illingworth had not stopped to hunt for a wayside telephone. The automobile driven madly, recklessly through the hills and over the rough roads, had brought him directly to the office in the shortest pos-"There is a deflection one inch and

three-quarters deep in one of the compression members, C-10-R," was the prompt and terrible answer. Colonel Illingworth had not been

president of the Martlet Bridge company for so long without learning something of practical construction. He was easily enough of an engineer to realize instantly what that statement

"When did you discover "" napped out. 'Last night."

"Is the bridge gone?" "Not yet."

"Why didn't you let us know?"

"I telegraphed father and, not hear-ing from him, I came down on the midnight train. It is a holiday in New York as well as here. I just happened to meet father in the office. He sent a telegram to you and not hearing from you, duplicated it an hour later. I tried half a dozen times to get you on the telephone and finally, by a happy chance, got hold of young Johnson.' "Where are your father's tele-

grams?" "Here."

Colonel Illingworth tore the first open with trembling fingers. "Why didn't you tell Abbott?" asked

the chief engineer.

Blossom Remains. "You know Abbott. He said the bridge would stand until the world caved in. Said he could jack the mem- keeps his nose to the grindstone." Egber into line. He wouldn't do a thing bert-"Well, it doesn't seem to

the window out of which he stared, with his back ostentatiously turned to- weight on the bridge. What shall we

"Telegraph Abbott at once." to his heart and held her there a mo-ment. He did not kiss her before he the company." said the aguated vice president, who was the financial men ber of the firm and who could easily be own adoring glance fairly enveloped pardoned for a natural exaggeration

"Yes, but if it goes with the men on operator?

"Yes, sir." she began, and Mende fully understood who, having been a soldler, thought

mental strain in her chief of construction foreman of,"

What happens after the crash is told in the next installment. What happens to the Meades and Illingworths, and the vast trouble stirred up, makes thrilling chapters.

CTO BE CONTINUEDA

GOLD FROM FLOOR TO CEILING

Wonderful Accumulation of Yellow Metal Stored in the Assay Office at New York.

The New York assay office is now kind in the world. There is more gold tacked up in boxes and kegs, in bricks and bars, in bias and bags, than ever before in the history of the country. The assay office, says the New York World, is the purchasing agent for the government. Foreign gold, consigned 'cashed in" through the assay office.

British sovereigns, packed in boxes are piled as high as the ceiling. Dodging that golden bulwark, the visitor is likely to bump into the cases full of the other side. Turning to reach the elevator, he skirts a row of gold bars, packed five ten-thousand-dollar bars to the keg, in sawdust, and stretching dong the wall twice the height of a man.

All gold, of whatever nature, is melted and refined to a fineness of 999.5. or finer, and cast into bars of standard The value of each bar is ex pressed in United States dollars and cents. Every bar and coin has to stand the acid test.

There are 15 big melting pots at work on gold exclusively. It seems almost brutal to see the workmen scoop shovelfuls of gold pieces from metal boxes and dump them, one after anaight fall, but it was as eternal as her other, into a pot until it is full, and then clap on the lid and wait for them

Waste Bark Replaces Rags.

A method of using waste hemlock rag stock in the manufacture of felt roofing has been developed at the forest products laboratory at Madison, Wis., and is now being used commercially by co-operating mills, according to an announcement made by the forest service. It is stated that in these mills from 20 to 30 per cent of the rags is being replaced by waste bark solely from rags. Members of the forthe experiments say that the utilization of the bark will make it possible to effect a considerable saving in the manufacture of felt roofing.

Exploration of New Guinea. A few years ago elaborate plans were laid in Germany to expiore the

hitherto inaccessible interior of New Guinea by means of balloons, which were expected to drift over the island in the prevailing winds. The project was much discussed in the magazines and subscriptions were solicited in its behalf, but it was never carried out. It is now reported in the newspapers that Dr. Eric Mjorberg, a Swede, is planning to make use of an airplane to explore the interior of New Guinea and is in the United States investigating the latest improvements in aviation.

Beware the Loaded Gun. The man who returns from hunting

and sets his loaded gun in the corner or hangs it on the wall is, in reality, setting a death-trap. Yet it is surprising how often this is done. The gun we "didn't know was loaded," is an old, old story, says Farmer's Guide. You cannot be too cautious. The loaded gun you may keep on the wall to shoot crows with when they get in the corn is liable to cause you more loss than a million crows can. It takes only a second to put a cartridge in a gun when the time is at hand. It takes no longer to take it out.

Absurd.

"My husband has the queerest ideas of economy." "Indeed?"

"Why, he actually seems to think I could save money by staying away from bargain sales."

High Cost of Art. "Many great composers died poor."

"Yet they had their chance to economize. Think of the money they saved by being able to hear their own music without paying!"

Bacon-"Crimsonbeak says his wife

WOMAN COULD HARDLY STAND

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dia E. Pinkham's Vegetable Compound.

If you have bad symptoms and do not understand the cause, write to the lodia E. Pinkham Medicine Co.; Lynn, a., for helpful advice given free.



Hasty With His Gun. New Dentist (in Frozen Dog)-Will eou take z

Bronco Bill-Will it burt much if I New Dentist-It will, Bronco Bill-Then, stranger, for

our sake I recken I'd better take it. Bobby's Reason. "Why did you spell bank" with a

ardinal, Boddey?" "Cause pa says a bank ought alays to have a good big capital."

Dr. Pierce's Pleasant Pellets are the orig-inal little liver palls put up 40 years ago. They regulate liver and bowels.—Adv.

Man is made of dust and he wants the rest of the earth.

Cocoa may now be imported into

Boschee's German Syrup

We all take cold some time and every-We all take cold some time and every-body should have Boschee's German Syrup handy at all times for the treat-ment of threat and lung troubles, bronchial coughs, etc. It has been on the market 51 years. No better rec-ommendation is possible. It gently soothes inflammation, cases a cough, insures a good night's sleep, with free expectoration in the morning. Drug-gists' and dealers' everywhere. 25c and 75c bottles. Don't take substitutes.

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