

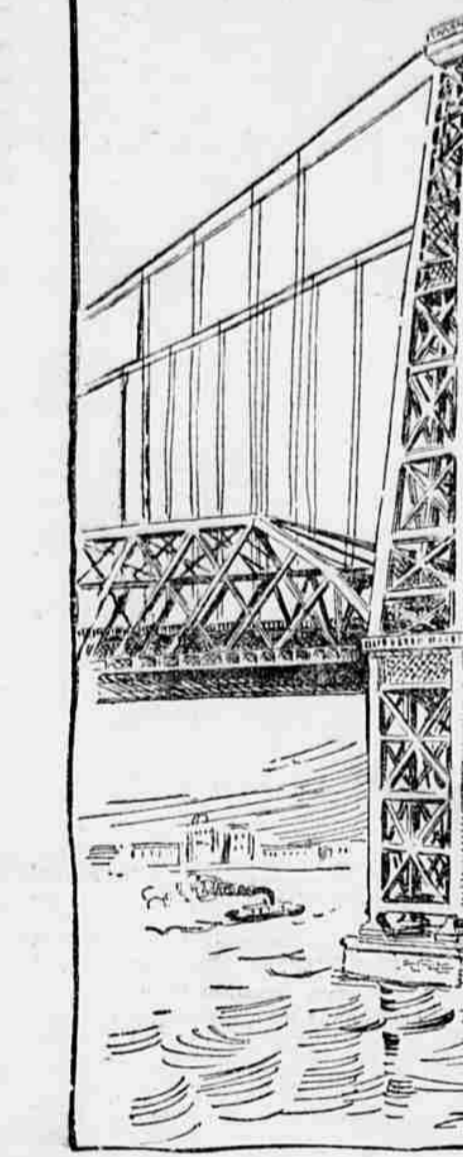
CITIES LINKED BY STEEL

New Bridge to Bind the Principle Sections of Greater New York.

BEARING AN IMMENSE STRUCTURE

Description of the Great East River Bridge from Foundation to Superstructure—Huge Towers of Steel.

The early days of May will see an actual beginning in the construction of the new East river bridge, which is to join the two principal sections of Greater New York and become the twin of the present Brooklyn bridge.



STEEL TOWER OF THE NEW YORK EAST RIVER BRIDGE.

tion for the New York end of the bridge was awarded. However, the old which seems to apply with especial appropriateness to the building of great public works such as this, and it is confidently asserted that the bridge will be finished and opened to traffic within a year after the opening of the twentieth century.

Mr. Buck, the chief engineer of the new bridge, may be called a bridge expert. At any rate, several of the greatest engineering triumphs of recent years in bridge construction were planned by him and he is to be classed well up among the half dozen men who are the leaders of American engineers in this line of work.

At the top of the steel towers will be sliding saddles, over which the four great cables which are to sustain the bridge will pass. These great wire ropes will be eighteen inches in diameter, and each will contain 65,000 separate wires, each 3-16 of an inch in diameter.

THOUSANDS OF MILES OF WIRE.

Perhaps an idea of its extent may be obtained from the statement that the masonry piers would build a large church, that the steel in the towers of the new bridge would build three miles of elevated railroad, and that the wire in the great cables, if stretched out in a single straight line, would reach almost around the globe.

In the actual work of construction the masonry followed by the engineer is reversed. The foundations and anchorages are first built. The work of building the foundations is in itself highly interesting, since the work will be done on many feet under water.

To tunnel to bedrock beneath the mud or sand at the bottom of a river seems a difficult matter, but in reality it is comparatively safe and simple. It is done by means of caissons, which, if not originally designed by Americans, have been so greatly improved by our engineers that they may be called an American invention.

The completed caisson is to be towed to the foot of Delancey street, New York, and when it is located on the exact site where the pier foundation is to stand work will begin erecting the masonry foundation on its top, the weight causing it to sink in the water. At this spot the water is only twenty feet deep, so that the caisson will rest on the ground as soon as it is submerged. But the bedrock on which

the great stiffening truss, which will extend from pier to pier and will be of steel, forty-five feet high. Their object is to make the bridge rigid and to keep it from twisting. It would if left entirely to the cables. The superstructure of the bridge will be united to these trusses by a double system of bracing from above and below. The floor itself, on which will rest the two elevated tracks, the four surface car tracks, the carriage ways and the footpaths, which altogether make the bridge 115 feet wide, will, of course, be made of steel girders and plates.

When the new bridge is completed, it will be the model of its kind. It will not be so long as the present Brooklyn bridge, but in fact its length will be nearly the same as that of the present Brooklyn bridge, but it will have a great many other features, and there are various other new features. For example, the new bridge will be unlike the earlier one in that only its main span will be supported by the cables. The rest will be separate deck bridges and will rest on piers of their own. It is estimated that to build the new bridge itself will cost \$71,600,000, and that when the ground is added, it will involve the expenditure of \$12,000,000. A few statistics of the bridge follow:

Total length 7,200 feet  
Length of main span 1,575 feet  
Height of towers at base 115 feet  
Height of bridge at towers (above high water) 115 feet  
Height of bridge in center (above high water) 115 feet  
Width 115 feet  
Total cost \$12,000,000

It illustrates the rapidity of advancement in bridge building and the fact that the bridge which is a marvel of its kind, will be completed before it is finished by the great railway bridge across the Hudson between New York City and New Jersey, which is nearly twice as large as any suspension bridge now in existence. It will have a span between piers of 3,254 feet. Its steel towers will rise to a height of 557 feet above water. The contract for it, which has already been let, stipulates that it is to be built within ten years, and its promoters say that it will be finished in 1925.

THE IMPROVED. The priest and priestess of one of the minor religions contemplated the votive offerings of edibles of the highest grade which had been placed before the idol. "Pretty good layout today," said the priest.

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A TERRIFIC BARGAIN OF PRICES NEVER were we so bountifully supplied with bargain ammunition. Now is the time to buy, when you can choose from hundreds of special purchases too good to last long. Not in our twelve years' experience have such all-around CUTS—to score another triumph. That this is PRE-EMINENTLY the store for money-saving people will be forcibly—INDISPUTABLY—proven this week. Read these SUBSTANTIAL BARGAIN FACTS (no Glittering Exaggerations here.)

A Bold—Determined—Move to Make This the Busiest Week on Record.

Advertisement for People's Furniture & Carpet Co. featuring various furniture items like beds, sofas, and carpets with prices. Includes the text 'We make the terms of payment to suit your own convenience.' and 'OUR NUMBERS ARE 1313 - 1315 - 1317 Farnam St. Three Doors From Paxton Hotel Corner'.

SPECULATING ON TELEPATHY

The Theory of Thought Transference and What it Amounts To.

CLASSED AMONG THE SCIENTIFIC FADS

The Wide Vista of Possibilities that Lure Seekers After Psychic Phenomena—Absence of Demonstrated Facts. The Scientific American for the 13th of last March has an article headed "Prof. Crookes on Thought Transference," which will be read by many with intense interest.

POEM BY JOHN QUINCY ADAMS. (Miss Mary Thompson of Terre Haute, Ind., eldest daughter of ex-Secretary of the Navy Thompson, has an autograph poem dedicated to her by the poet.)

IS IT POSSIBLE? Though a long experience acquired in the study of scientific fads and follies and fancies has made me slow and reluctant to accept any startling discoveries in such matters, and, as a consequence, I freely confess to being somewhat incredulous to the theory proposed by you.

PHENOMENA.

Phenomena," by Thompson Jay Hudson, L.L.D., a book which in this city has many admirers, has recently been translated into English, makes the honest statement that, in the matter of which it treats, we are not in possession of well established facts by which we can safely test the truth of our speculations. The author admits (p. 32), that "it is comparatively rare that scientific investigators disagree regarding the phenomena of psychical phenomena."

LET US HAVE FACTS. As soon as the principles of steam power and electric power were understood, we at once had some of the effects made visible. So with the telegraph, the telephone, the bicycle, the automobile, the airplane, the motor car, etc. Let us have telephatic messages at once. Happily, Prof. Crookes, as president of the much-valued Society for Psychical Research, is in the best position conceivable to test the value of his hypothesis.

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