Chinese Educators Adapt American Books to Their School Needs'



IN A MANDARIN LAW SCHOOL. A NATIVE DICTIONARY IS NOW IN PRESS



FROM CARPENTER'S NOATH AMERICA PIRATED BY THE CHINESE



A SCHOOL BOY OF PEKING



PAGE FROM CHINESE PRIMER

there is practically nothing on hand. The humming with modern machinery. that tomorrow our president and congress branches of the establishment. should enact laws wiping out our public The Commercial Press is making every-That is the situation in China today.

Books for Four Hundred Millions.

for civil officials, military schools for the etching and half-tone plants with comably have none in the future.

them here by the ton.

China's Biggest Publishing House.

HANGHAI, 1900 .- (Special Corre- of the far east is that of the Presbyterian Chinese has many thousand characters; room. spondence of The Bee.)-One of mission at Shanghai, another of consider- and, in the simplest of the school books, the problems which China is able size belongs to the Methodists, and several thousand are used. In the Chinese

is being established all over the yet been organized to take advantage of is, it is written in words, rather than let-Academies, colleges and universi- new conditions is the Commercial Press of ters and syllables. A Chinese alphabet is ties are being organized, and books are this city. It was established a little more new being formed and a new system of needed for teaching the new learning, than ten years ago, with a paid-up cap- writing inaugurated. When the system is in full sway millions ital of \$350,000 silver. It has since grown of volumes will be required, and at present until it now has a plant covering acres and brush and india ink, the brush being held

face,, and the other countries skirting the Shanghai proper, on the other side of edges. The chief studies of the past were Hongkew creek. On my way to it I drove the reading and writing Chinese and the past a mile or so of fine foreign residences, committing to memory the sayings of with wide porticos and galleries about Confucius and Menacius. Today the nation them, by many stores occupied by Chinese, wants one scheme of modern education, by schools and colleges run by the mis-The government has resolved that it shall sionaries and on out into the country. I have it, and a compulsory system of school- was accompanied by one of the managers ters. With it a different system of printing is to be generally established. Suppose and with him went through the various ing and writing will come into being, and

schools, replacing them with others vitally thing from kindergarten lesson books to it will come i nto use. different, with an entire new list of books. English-Chinese dictionaries, geographies and books of mining and engineering. It has a large lithographing plant, where a dozen presses are turning out school books China, moreover, has four times as many in colors. In one room they were printing people as the United States. Its children a calendar for the coming year, using of school age are more than 100,000,000, and twelve different colors, and in another in the new scheme the grown-ups as well making cards of many colors, depicting as the babies are anxious to learn. There plant and animals for teaching the Chinese are kindergarten and primary departments babies. Much of the printing was done for the little ones, there are night schools from stones, but there were also large army, and law schools for would-be states- plete photographic appliances. In one well men. All these are under way, and there lighted department I found a dozen Japangreen and others with blue, yellow or printing offices at home, black.

ern text books in use have been made by tere, and the characters used by our prin- and he usually had a boy to run and

facing is the making of text there are a few of other denominations. now in use every charcater expresses a books. A public school system The only large secular house which has word; the language is idiographic; that

At present all penmanship is with a almost perpendicular. About 2,000 years old text books describe the earth as flat. I went out to see this establishment last ago the people had a penmanship based with China covering the most of its sur- week. It lies within two miles or so of upon curved lines, but this was difficult tically abolished. Metal pens and fluid inks will now be brought in, and the old curves will come into use. This will prac- piled; tically kill the brush-pen and India ink business, and a great industry will go to them! Some of the best earn \$7 Mexican

The new alphabet is to have, fifty let- age workman is paid about \$1.50." be so adapted to the new system that

In the Casting Room.

At present every character employed in the printing house has to have its own mairix and be cast separkiely, and the characters are so delicate that they must be new in order to do good work. In the composing room I visited, six difone kind and another. The Macmillans of between the different impressions for the shown the matrices of the books already Chinese teachest characters can know. London and New York have published ink to dry. Where many colors were re- published. They filled the shelves which Ginn of the United States others, and as press to press, a separate stone being used floor to celling. Anothr room was defor the Japanese, they are pirating the for each color. This was to avoid wasting voted to storing electrotype plates, every- from Carpenter's "Asia," which was then school books of other nations and sending time in changing ink, one set of presses thing being catalogued and as systematic-

In the composing room each printer Up to the present time most of the mod- Our alphabet has only twenty-six let- stood in a little alcove walled with cases,

(Copyright, 1909, by Frank G. Carpenter.) the missionaries. One of the largest presses ters are comparatively few. The classic fetch the types from other parts of the ways. They have printed charts of the

With the Bindery Girls.

ment and spent some time there watch- which the missionaries have done cannot ment and spent some time to the were hundleds of be overestimated, and the situation here of the western world. Today 221 novels, Peking, has published a number of school trousers, with bands of black silk over missions will return a thousand-fold their olly black hair. They sat at tables, with their little deformed feet just touching the floor. They worked so busny that I remarked upon it, whereupon the mana-

'We pay them by piecework, and they have no time to waste.' I asked as to their wages. The man re-

"Oh, they are making much money, for per week, or about \$3 in gold. The aver-

These girls were siltching and sewing folding and pasting, and also feeding the the probability is that the typewriter will presses. Their hours were about twelve per day. The department contained much modern machinery, and the work of binding was economically done.

Celestial Book Pirates.

its managers think of value for the new dollar." ferent riges of type were employed, and tent with the hope that their books may be known as the Carnegic of China. of these more than \$,000 characters of do good, even though they do not add to each style are kept on hand. This necess their financial receipts. As I looked over sitates the making of 50,000 different the volumes printed by this company for characters, each of which must have its the new education I found many well tem and the new civilization is bringing Chinese university at Tlentsin, and now ers for the new schools. own matrix, or die, in the snape of a known American text books which have in translations of the most popular books the Chinese secretary of our legation at are no books to feed them. The situation ese artists working away, and in another brass type from a quarter to half inch been translated into Chinese. I saw also is one of the strangest in history. It has was shown machines for reducing drawings square and an inch long. This die is stacks of my own "Geographical Readers," no counterpart in the past, and will prob- to any scale. Some of the engravers were fitted into a casting box, and by turning published on cheap paper, with abominable cutting out copper plates for new national a crank the types are turned out at the illustrations. I was told the whole series In the meantime books are being im- currency, and others were etching out rate of twenty or thirty a minute. A had been prepared for the press, and that ported from half a dozen different coun- plates for school book illustrations. I spent score or so of such machines were busy my books on North America and Europe tries. The great school book publishing some time watching them printing bank at the time I went through the stereo- were already in use. The matter has been houses of Great Britain, the United Straes notes. The lithographic stones were placed typing department, and their clicking translated by the English-Chinese scholars, and Japan are studying the field and are on the presses and the various colors ap- made as much noise as so many corn and, as far as possible, verbatim, but how shipping in translations of text books of piled in succession giving sufficient time shellers. In an adjoining room I was correctly only those who can read the

As I looked at my books the manager some, the American Book company and guired the sheets were passed on from walled the sides of a large room from of the company said they sold well and that he expected to get a good revenue in the press. He explained apologetically being equipped with red, another with cally arranged as in one of our modern that they had been forced to change some of the literary matter in the chapters on China, as their people did not like to be told that they had buttonhole eyes, pigtailed heads and deformed feet. He made no bones about taking my books without pay, and even offered to make a royalty contract with me if I would write him a new reader or so especially adapted to the Chinese market. I replied that I was very busy, and he thereupon suggested that the book could be written for me in their office and that I could revise it. But in that case they would expect to pay a much less royalty. I told him such a proposition was out of the question, but notwithstanding tids be brought it up power, or torque, as it is called. Using again and again, and uvged it upon me at

Among the other books in the ware- is under way. house I saw piles of Chinese-English dicour legation in Washington. The two voltablished at all the provincial capitals.

School Supplies.

After visiting the editors, I was taken to is devoted to school supplies, and makes everything from desks to blowpipes for the started. chemical laboratories. It munufactures pendulums, globes, Indian clubs and dumbbells. The dumbbells are cast from pig iron; they are made in great quantities, all public schools.

nected by a telephone system. The ma- only in the larger villages and in the cities chinery is up-to-date, and on the whole has gone forever. Today there are few it shows one something of what is going rural villages too small to boast of all on in the new China.

Mission School Books. At present a large proportion of the new

text books are printed upon the mission presses. The missionaries have been at work in China for a century, and they have established schools in all parts of the country. They were the authors of the first new text books, and as teachers their graduates are now in demand. The American Presbyterian mission press at Shanghal has been pouring out volumes for a number of years at the rate of 90 .-600,600 pages per annum, and the consolidated mission press of the American Methodists has also published numerous educlety distributes between 100,000 and 1,000,-660 volumes of the Scriptures in Chinese each year, and there is now a mission educational association, supported by all the Protestant sects, which is preparing new text books for the schools. At some of the missionary stations they are making school museums, including such things as stuffed birds and animals, mounted fishes, electrical machines, globes and model rail-

Chinese provinces, with the principal industries and resources marked upon them. and have inaugurated new methods of I next went into the binding departs teaching the people. Indeed, the work them, dressed in long blue coats and wide just now is such that money spent upon originally written in English, French or books, which are in a general use, includ-Carnegie of China.

In this connection a bright woman clerk

of the mission book store of Shanghai said

"What China needs more than anything else is a system of circulating libraries, which shall contain the simpler books of our modern literature, including the scriptures, concordances and the western classics. These people are pining for the new learning, but they are unspeakably poor and cannot afford to buy books. The Chinese women want them. In every comthe women come together weekly or dally are published on cheap paper; they are school furniture has been made in Japan. to gossip and talk. If they could have such books they would be read aloud at some bringing as little as 10 cents and charts. these meetings and a great educational this nation sold to the extent of 400,000 lower saluries than other foreigners, and the Chinese translations, they are cheap. The concordance of the scriptures costs eighteen months. China has no copyright law. I found the less than 20 cents gold and there are few Commercial Press stealing everything that books of any kind that sell as high as a

New Chinese Literature.

mand for them is increasing. In one year pared a complete series of text books and fifty-seven such novels were issued. They mathematics in the Chinese for the Japincluded translations of "Uncle Tom's anese translators. Cabin," Jules Verne's "Voyage to the A large number of the new translations Moon" and Charles Lamb's "Tales from come from the Japanese. The written Shakespeare." One of the most popular of languages of Japan and China are somethe new issues is Conan Doyle's "Memories What similar, and the Japanese scholar of Sherlock J. Holmes" and another is learns quickly to speak, read and write from the French are "Les Miserables" and editorial room a large number of Japanese English stories are / Ivanhoe" and other find Japanese teachers in all the Chinese novels of Sir Walter Scott. These works educational centers. Much of the new sold by booksellers in various cities, and a large number of the modern maps apiece. One of the recent translations of The Japanese teachers will work for copies, and that within a year; another this is one reason for their employment,

such as Darwin's "Origin of Species." Chinese school. No matter what the copy- I cite this conversation as a suggestion Spencer's "Evolution" and Mill's "Essay are hundreds of Chinese now studying in the rights are, foreign authors must be con- for some rich American who would like to on Liberty," are being published, and the United States, and there are many American new constitution has created a demand for treatises on politics and parliamentary these have a high regard for our methods

The inauguration of the new school sys- Dr. C. D. Tenney, formerly head of the selection of our college graduates as lead-

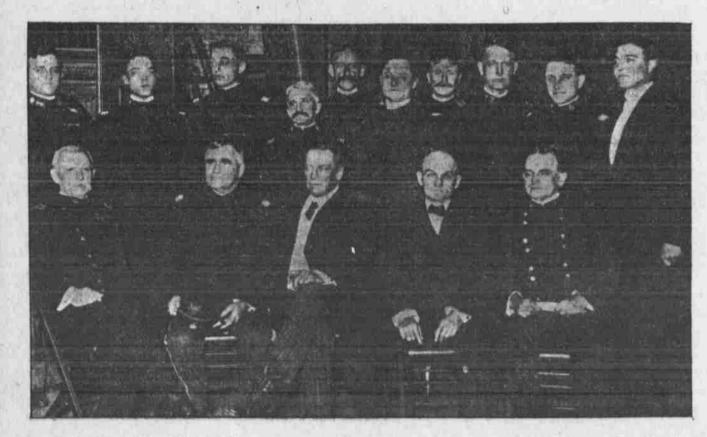
Gorman, are in circulation. They have ing readers, primers and geographics, and been translated into Chinese, and the de- Mr. Mylic of the London Mission has pri-

"Robinson Crusoe." Among translations the Chinese. In the Commercial Press "Manon Lescaut," and the most popular men are employed as translators, and I

had a circulation of 158,900 copies within As a rule, they are not thorough, and the probability is that they will eventually In addition to novels, some heavy works, Germans. I look for the steady increase lean-Chinese graduates in China. All of of education, and they would favor the

FRANK G. CARPENTER

Omaha's Soldiers in New Armory



Seated, from left to right: Brigadier General Charles Morton, U. S. A.; Colonel Cornelius Gardener, Sixteenth United States Infantry; Judge Lee S. Estelle; Mayor James C. Dahlman; Adjutant General Hortigan.

Standing, from left to right: Lieutenant Otho E. Michaells, side-de-camp to General Morton; Major Adams, assistant quartermaster general on governor's staff; Capitain Joseph F. Golin, Sixteenth United States infantry; Major Ed P. Berryman, governor's staff; Capitain W. K. Jones, U. S. A.; Major Kesterson, governor's staff; Lieutenant Colonel A. D. Fetterman, inspector general, governor's staff; Major E. H. Phelps, assistant inspector general, governor's staff; Lieutenant Colonel A. D. Falconer, quartermaster general, governor's staff; Lieutenant Colonel W. E. Bashr, First regiment, Nebraska National Guards. NOTABLES WHO ATTENDED THE DEDICATION OF THE NATIONAL GUARDS ARMORY IN OMAHA.

posite the public library, was

representatives of the local militia com- Fort Crook furnished the music for the esprit de corps of the militia organizations panies, a number of the governor's military affair. staff and a number of officers of the regu-

missary; Major D. E. McCarthy, chief event of war. quartermaster; Colonel Cornellus Gardener quartermaster United States Army

Fraternity hall, on Harney, op. special representative of the governor. male the occasion of a brilliant First regiment Nebruska National Guards, roof.

lar army connected with Department of Mayor J. C. Dahlman, and short addresses number of men and women of Omaha, a the Missouri headquarters and adjacent were delivered by Brigadier General Mor- dance was given, being the initial military ton, Colonel Cornelius Gerdener of the ball in the new armory. Those of the regular army were Brigadier Sixteenth United States infantry, Judge Lee The regular nights for drill will be Mon-General Charles Morton, commanding the Estelle and Adjutant General Hartigan. All day, and the public is levited to visit the Department of the Missouri; Lieutenant the addresses bere particularly upon the armory on these evenings in order to be-Otho E. Michaelis, alde-de-camp; Lieu- necessity for an organized National Guard, come better acquainted with the National

ment. The provisional battalion will be recruited to their maximum.

HE formal opening of the new Adjutant General Hartigan of the Ne- under the command of Licutenant Colonel National Guards armory in old braska National Guard was present as the Baehr, and for the first time in the history of Omaha militia companies, the Lieutenant Colonel W. E. Bachr of the three companies are housed under one

military event Monday evening. acted as master of caremonics. The Six- The hall has been admirably equipped for There were present, in addition to the itenth United States Infantry band from the purpose and will tend to increase the here. Following the reception of Monday The address of welcome was delivered by evening, which was attended by a large

tenant Columet F. F. Eastman, chief com- as a nucleus for a volunteer army in the Guard, and to learn what it is and what

it is for. The new armory will house the provi- The establishment of the new armory has of the Sixteenth infantry, Captain Joseph sional battalion of the National Guard, already had the tendency to increase the F. Gohn. Sixteenth infantry, and Captain consisting of Companies I and G of the enlistments in the several companies, and W. K. Jones, Sixth infantry, assistant Second regiment and L of the First regi- it is hoped that in due time they will be In the Field of Electrical Experiment

all this is very mystifying, but to the elec- to advantage to pull the plows, harrows, trical engineer it is simplicity itself. If a small hole was drilled in a water other outdoor machinery. pipe just above a faucet, the water, under essure, would rush out at terrific specd; but if you should open the faucet the flatiron as well as her city sister. pressure would immediately drop down so low the water would all but cease to flow is increasing with marked rapidity. A few out of the tiny hole. This is exactly what happens to the incandescent lamp in a street ear when they suddenly grow dim, only it is electricity we are dealing with surely coming when the majority of farinstead of water. To start a loaded street mers will consider electricity a necessity car requires an enormous amount of electricity, the motors fairly eat up the current in order to get the necessary starting such a quantity of electricity relieves the

Nearly all street car systems operate at tionaries. They were in two volumes each 550 volts pressure. The lamps in the car as big as an ordinary table Webster. They consume current at 110 volts pressure and are practically a translation of the Stand- they are connected in groups of five in ard dictionary, which is so largely used in series across the 550-volt circuit. When the United States. They were edited by the voltage for these lamps drops below Dr. Yan, who has been connected with 110, because of the large amount of carrent going to the motors under the cars, umes are widely distributed; they sell for not enough electricity is being forced about \$6 in gold. Pocket dictionaries are through the lamp fliament to heat it to inalso printed, and a native law dictionary candescence and of course the light is is now in press. This will be sent out to dim. Opening wide the current conductors the law schools, which are now being es- to the motors suddenly lowers the line pressure, which in turn reduces the pressure on the lamps. Once the car is under way the motors do not require so much another large building, which contains a tamps and they continue to give their rated current and the pressure returns to the curious branch of this publishing house. It candle power until the next time the car is complete.

Progress in Electrical Farming.

There is no longer any reason why even the farmer of moderate means should not and it is intended they shall be used in colory all the home comforts of his city cousin. The day when bath tubs, lighting Every room of this school book factory plants, water systems for fire protection is lighted by electricity, and all are con- and heating furnaces were to be found these things and the farmer has caught the spirit of the times and his up-to-date farm house is lighted with electricity and heated by steam. It is supplied with fine bath rooms and running water and other modern conveniences.

A few years ago the electric light and power plants installed on farms were very few and far between. A few adventurous farmers had dared to harness their moun tain pasture streams and turn their water energy into electricity for use about the house and barns; a few more had installed our navy to be equipped with electric gasoline engines for the same purpose, ranges for the officers' mess. These early installations proved a success from the first and it was not long before about until almost every well-to-do farmer 1,200 miles. was considering the question of a similar. In a few more months it may be possible installation.

omies of electricity for lightly, heating and cesses now being perfected. cooking in the farm house, it readily assumes must of the hard work about the electricity for farm use has been perfected ordinary bathroom. And electricity con farm which, in the past, has been a most in England. A storage battery supplies the veyed by wire from an electric discouraging factor in securing farm labor, current when the wind is not blowing. Electricity easily does the milking, separating and churning as well as turning Pacific extension through the mountains ways at exactly the right heat.

the washing machine and the wringer. In near the Jalisco-Teple boundary where HO has not noticed when riding the barn it is applied to ferd cutters, corn there is heavy tunnel work, will have the on the street cars at night that shellers, feed grangers and to an other use of electric power. sometimes the lamps which small machinery, such as the grindstone. A gyroscopic car weighing twenty-two light the cars/born very dim lathe and a small buzs saw for cutting fire tons and carrying forty passengers has for a minute and then seem to wood. The threshing machine and fanning been successfully tested in England. The burn very bright? Sometimes mill are very easily belted onto the portthey almost go entirely out, then suddenly able motor. In Germany and a few other come on again. To the ordinary traveler foreign countries electricity is also used

> In the house the farmer's wife can have her electric cooking devices and electric

The number of electrical plants on farms of these plants run by small water powers, but the majority use small gasoline engines and storage batteries. The time is and no matter how far they are located transmission lines, they will find means to of the electrical engineers of the General into the highways and byways of the coun-

Train Dispatching by Phone.

Reports from Hannibal, Mo., state without qualification that train dispatching by telegraph on the Burlington system between Hannibal and St. Louis is to be dispensed with this month and the telephone substituted. Nearly all of the telegraph

About a year and a half ago the Bur- At the recent electrical exposition in on with the aid of the telephone.

Several other divisions of the Burlington tatoes. system are equipped with telephones, but not all. However, the officials expect to and smiling young woman turned out to eventually do away with the telegraph instruments altogether, and probably by next biscuits as crisp and crusty as any from summer not a sound of the telegraph in. the best coal oven that ever huked, roast strument can be heard over the great "Q"

Electrical Notes.

The North Dakota is the first ship of

The wireless apparatus on the Cunard liner Caronia to the most powerful of any their worth had been talked and written in steamship service, having a radius of

to telegraph photographs across the At- socket turned a highly modern washing Aside from the many benefits and con- inntic from New York to London by pro- machine, wringer and mange.

A new windmill apparatus for generating

car is propelled by electricity produced

from a gasoline engine-driven generator. American show window lighting is being introduced in London, It is customary in rakes, cultivators, binders, mowers and the English capital for shop keepers to barricade every window with heavy iron shutters just as soon as the day's business s over. This is a relic of those ancient days when it was not safe to leave the shop unprotected, but the American plan of window displays and well lighted store

fronts is being successfully introduced. It remained for a boarding house full of girls in the city of Boston to discover the real merits and possibilities of the electric flatiron. With many of these girls economy in their habits was strictly necessary, and when they found out tacy could secure plenty of cheap electricity. Many get a small electric flaticon, which could be readily attached to the lighting fixture, pressure, or voltage, of the system, and of Electric company predict that in a few and press all their laces or ev n a shirtcourse the lights burn dim until the car more years the electric power lines will ex- walst, they were quick to invest their tend out from the cities and large towns savings for this little household economizer. But one of these self-same girls, try where every farmer can tap the line with a bit of inventive genius quickly disand purchase at a very reasonable figure covered that the electric fron could be very all the power he requires for his farm easily turned unside down and used as small cook stove. On the fint face of her fron she easily boiled water, made fudge or even fried eggs and did other cooking.

The Kitchen of the fee fee.

Science, which has for yours worked to lighten the labors of man, has now turned to ald woman in the household. She who instruments on the Hannibal division and red-not stove; washed in a steaming launonce prepared the family meals over a also on the Mexico line, were slienced a dry and cleansed her floors by vigorous few nights ago, but some dispatching is broom strokes, can now practically do it yet being done by telephone, owing to all by the manipulation of a outton atthe fact that the telephone line is not quite tached to the electric light system in har house.

lington built a line between Chicago and New York, according to Gertrude Penrose Mendota, Ili., on the Aurora division, and in the Van Norden Magazine the "kitchen began dispatching trains on that stretch of the future" exhibited there, had none of track by telephone. Soon the entire of the disadvantages with which women for Aurora division was equipped with tele- centuries have had to contend. An electric phones, and later the Galesburg division, motor, on a porcelain stand no bigger than Only recently the telegraph instruments an ordinary card table, turned the grank on the Brookfield division between Han- of a patent bread kneader and cake mixer, nibal and Brookfield and Brookfield and ran a fruit press and an icre cream (reexct, Quincy were removed and train dispatch- churned butter, beat eggs, whipped cream ing on that division is now being carried chopped meat, ground coffee, accured knives, polished silver and even peried no-

With the aid of these appliances a cool admiring spectators bread, cake, pies and meats that were all crackly brownness outside and julcy tenderness inside, stemps and chops broiled just right over their a itire surface, stacks of golden griddle cakes piles of brittle toast, pots of steaming coffee, doughnuts, "rabbits," Newhurghs everything the heart-or at least the parate

of man could desire. While the young woman in pink demonstrated the possibilities of electric cuoking, another young woman, equally cool, fresh, smiling and unruffled, did a family ward, A motor connected with an electric light of electrically heated air dried

in an anclosed space no bigue than an socket over the ironing board heated the The contractors building the Southern flatiren, for there was but one, kept al-