## Dec. 27, 1900]

Frenchman can, and to permit his talent believe that such children may exist, but we Ridge's burglars are not quite so depraved for the criticism of society a wider field of don't like them or wish to hear about them; and dirty as Bill Sykes and the Artful Dodgobservation. The form of corruption directly attacked in the "domestic drama" entitled "Other People's Luxury" is, speaking for all the world, and for power to wreck human happiness, a more common and more serious crime than adultery. In every class of society, domestic disaster is brought about more frequently by a woman's covering of her fellow-woman's material goods, of anything and everything purchasable that is her neighbors, than by an irresistible passion for her neighbor's husband. If any particular curse/may be specified as the curse of democracy, it is the inevitable prevalence of the wish, often assuming the intensity of a mania, to appear as good-that is, as rich and imposing-as one's neighbor, who, of course, is not by birth, by any grace or strength of nature, or for any reason on earth except the accident of superior wealth, any better than one's self. This corrupting desire is not exclusively feminine, but it attacks women more generally than men, rages more fiercely among women, and is more destructive of feminine morality, M. Bourget's Mme. Le Prieux is not an exegoism which compels one for ever to compare herself with her richer neighbor, and to go on increasing expenses, complicating life. foolishly (sometimes tragically) sacrificing the reality to the appearance." Under other names she intrudes herself on the contracted social scene of American country towns, and she dominates the big world's stage.

M. Bourget has drawn the lady broadly is persistently tendering assurance of his ly expressed. The more violent tragedy of "The Day of Reckoning" is the consequence of a crime committed by devoted and aspiring parents in order to assure the worldly success of their son. In this drama, as in "Other People's Luxury," the family bond \* is compelling; no member of a family can shirk participation in a common interest, and the conduct and character of one inevitably affect all. The Corbières, plain honest people, yielding to a terrible temptation, appropriated trust funds. This illgotten money was so well expended on the education of Eugène, their son, that when, established in the world, and famous in his profession, he discovered his parents' crime. he then took the burden of sorrow and shame upon himself, and gave his life to repair a hideous wrong for which he was not responsible, but by which he alone had benefited. The character of Eugène, tested by a sequence of most trying incidents, and subjected to incentive to ignoble action, preserves a balance between passion and reason, a firmness tempered by gentleness and sympathy, which one false touch would have reduced to the absurd. But M. Bourget has seen his man clearly, so there is no false touch, no sentimentalizing, only a very sincere presentation of a good man. The remaining dramas are psychological studies of children, and are narrower in view, more the romance of that sort of crime which author of the 'Mécanique Céleste,' for Agas-

From the biographical sketch introducing 'An Eagle Flight,' it appears that the au- picturesque, nor are his relapses very touchthor, Dr. José Rizal, was of almost pure ing. The self-sacrifices of his friend, the Tagalo race. Deeply impressed in his youth excellent but uninteresting Mr. Finnis, must by the wretchedness of the Filipinos, most | have been their own reward; otherwise, they of them in a condition a little worse than point no moral. The tale is not entertainliteral slavery, believing in their capacity | ing, and can hardly have been written with to rise to better things and to enjoy them, the immoral intention of exciting sympathy his short life was dedicated in one way or with burglars, as the author does not apanother to their cause. Though he was shot | pear to be an enemy of society. for treason, the charge appears to have been trumped up by his enemies, for he The Story of Nineteenth Century Science. did not think his people ready for indepen-By Henry Smith Williams, M.D. With ildence, but, on the contrary, believed that lustrations. Harper & Bros. 1900. Svo. their political safety lay in continued union · pp. 475. with Spain. The tyranny he hated and A brief and extremely popular account of fought against was not that of a king or of the general progress during the nineteenth the Spanish Government, but the tyranny of century of the physical and natural sciences a multitude of friars, brown, white, and gray, was wanted at this time, and Dr. Williams who for two centuries had had their sandalled has drawn it up quite as successfully as feet pressed on the neck of a helpless race. The friars owned the land, owned the ear of the whole field of those sciences, but deals could be expected. He does not cover ceptional instance of that "fever of worldly Spanish officials, owned the soul of the ignorant and superstitious native. Against this besides, a chapter upon modern psychology. with all the most significant parts, and adds, irresponsible omnipotence every Filipino re-To call what is here dealt with "Ninetcenth volt has been directly aimed, and in order Century Science," ignoring mathematics, to show it up, to make it plain and detestable linguistics, archæology, economics, is to do to Europe, Rizal wrote fervently poems, injustice to the nineteenth century, but it is pamphlets, and novels. 'The Eagle Flight' an injustice that we are accustomed to. The in an adaptation of his first novel, entitled word "Story" in the title may serve as a 'Noli' me tangere,' and it is probable that hint to the prospective purchaser of the many incidents of his own life, much of his volume that he may expect a style which own aspiration, are described and expressed strains a little, and rather uncomfortably, and also in delicate detail. Ostensibly, he in the principal figure of the tale, Cris6safter effect and sensation. Still, while, there tomo Ibarra. The book is extraordinarily is some truth in that, especially in the earhighest consideration, making the best he interesting, showing the poet's feeling and lier part of the book, it would be a great can of her without violating a felt obligation | far vision in unusual combination with mistake to suppose that this is one of those to practise "the noble virtue of uncompro- power of unprejudiced observation and force publications which assume that science conmising veracity." A distinctly French facul- to do-to do always the most and best for sists in producing startling novelties and ty for converting social observations into a purpose on which the heart is set. Rizal thrilling marvels. On the contrary, it is a literature, and for exciting a feeling for did not concern himself deeply with the techserious work, written by a man who, if he morality without appearing didactic or pur- | nicalities of novel-writing (though the oridoes not everywhere show himself a mas-' poseful, has perhaps never been more clever- ginal is probably more coherent than the ter of the particular branch of science of adaptation), so the book is a series of epiwhich he is treating, which would be almost sodes, scenes, situations loosely connected. inconceivable, yet does show that he knows yet all helping to express his absorbing paswhat science really is better than a good sion and to impart it with intensity. many men who go by the name of scientists. The strain, however, is not of unenlivened He seizes upon the great and fruitful ideas melancholy, for the sketches of social life which have been developed in each of the in towns are, to the foreigner at all events, branches of which he treats, and shows how exceedingly funny. It is very amusing to it has been evolved, in a way to make his know that society people, in Manila have work worthy of being called, not a mere ambitions and arts so much like those of "Story," but a History of the Nineteenth society people at home. Rizal's attitude Century in respect to ten, at least, of the towards the more prosperous of his countryeleven sciences which he considers. To do men is of contempt more bitter, perhaps, this in such a way as to be readable without than they deserve, seeing that they are hufatigue by everybody who ever reads anyman as well as Filipino, and that they, even thing but a newspaper or a novel, is a veritas the poorer classes, come under the scourge able feat. That it is easy enough to be enof the friars. But while his feeling for the tertaining about science we know, but it is masses is intensely sympathetic, he never not easy to write lightly and yet picture looks at them with the eye of uncritical science as it appears to scientific men.

taken into consideration.

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if not a wickedness.

partisanship. My people, he says, are ignorant, idle, not sternly virtuous; on the other hand, not predisposed to coarse, destructive vice. What strength of nature they and my conviction is that, once having obtained freedom, they will learn to use freedom well. This argument is not yet closed, so there is still time for Rizal's plea to be

The author of 'A Breaker of Laws' revives

and to analyze precoclous or morbid little er, but, on the other hand, they are never wretches seems to us a waste of talent, thrilling, and their best effects to be comic fall flat. Alfred Bateson's struggle to assume respectability with matrimony is not

We must not be understood as meaning that the book wraps up any profound insight into the nature and methods of science, as Whewell's immortal history did. have is crushed by an infamous oppression, It can teach nothing to scientific men, because it looks upon science precisely as they do; but it will be highly instructive for the great public for which it is intended. Bad proofreading, with which we are becoming sadly familiar of late, must be re-" sponsible for Lagrange being named as the characteristically French. We others may Dickens exploited in 'Oliver Twist.' Mr. siz's work on glaciers being dated twenty

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leading statements, in spite of which a of any occult phenomenon, such as the mixgreat deal of pains has evidently been taken | ture of two liquids making a solid, two colto insure accuracy in details. The book is orless liquids making a black mixture, red evidently has knowledge at first hand of not a mere compliation. The writer has trand green lights making yellow, etc. An looked into the memoirs, and has otherwise sought information at first hand. The volume also contains unwards of a hundred illustrations, almost all of which are positively interesting. Three-quarters of them are portraits. The writer of this police was acquainted with the originals of nearly half of them, and can testify that those are characteristically portraved, while most of the others carry conviction.

Nobody can dream that it is humanly possible to write a work like this which is not open to much criticism. The writer must have a weak side, and Dr. Williams shows his, the more exact is the branch of science with which he deals. This is unfortunate, for that is just where mastery would be most desirable. For example, Dr. Williams plainly shows his aversion to the idea of action at a distance, to which he has no doubt been encouraged by Kelvin and | more important page of the history of phyhis followers. Now there are just three sics than that which relates to the develreasons which render the opinion of those opment of ideas concerning heat, energy, and physicists a tenable one. The first is pure- gases from 1824 to 1875. But we do not ly logical: it is that as long as we are | find that the account here given of this forced to admit an all-pervading ether, we movement of thought is all that might be have no need of any action at a distance, desired. The author asserts that Sadi-Carnor, indeed, of any other matter at all, and | not, in 1824, explicitly stated that a definite all our notions of rigid mechanics can be quantity of heat could be transformed into a replaced, or be regarded as replaceable, by definite quantity of work. But, on the contrary, an amplified hydrodynamics. The second though it is said that Carnot's posthumous reason appeals to the lessons of the history papers show that he subsequently entertainof science. Because Faraday had no mathe- | ed this idea, yet in his celebrated book his matical training, and was consequently un- | doctrine is that heat is a fluid, that its able to think clearly about action at a dis- quantity remains unchanged, and that it tance, he was led to develop another way does work in falling from a higher to a lowof thinking about the forces of electricity | er temperature just as water does in passwhich not only is extremely attractive to a ling from a higher to a lower level. Nomathematical mind, but also gave rise to | thing is said in this "Story" about the sec-Maxwell's theory of electricity, and thence ond law of thermodynamics. The reader to all the conceptions of Hertz (with the Marconi telegraph to testify to their | admitted, or we may even say Rumford's, value), and to the vortical theory of matter, there was no further difficulty with the thewith the applications that J. J. Thompson is making of it. The third reason is more positive, although even this is not conclusive: it is that the properties of elastic solids cannot be accounted for by attractions and repulsions) between pairs of particles. But Dr. Williams does not touch upon any of these things as causes of the opinion he seems to espouse. He does not tell us that action at a distance was universally accepted by all whose opinions were of any account through the first half of the century, nor how the contrary belief has gradually become respectable. He leaves the reader to imagine, as the popular reader will be sure to do, that the objection to action at a distance is no more than might have weight with a philosopher of Newton's centuryits inconceivability. Now there can be no manner of doubt, in the mind of a psychologist, that this "inconceivability" of action at a distance is due to the circumstance that the great mass of every-day experience in regard to the communication of forces is of one solid body pushing another. Yet, whatever theory we may entertain about action at a distance, it is an indisputable fact that in such ordinary experience there is really no contact at all between the atoms of the different solids. For if two pieces of iron or glass are brought into secual contact, they will stick together so that they can only be torn apart. In short, the "inconceivability" of action at a distance have a spirited narrative in brief of China | prompt and thorough according as the light

vegra the late, and a number of such mis- is of the same kind as the inconceivability and her modern experiences, together with inconceivability which does not prevent an consistent is no good reason for rejecting it. Although Dr. Williams is so averse to the admission of action at a distance, he seems almost equally so the only possible escape from it, that of the ether. He even suggests that empty space may fulfil its functions. He does not point out that if hight, during the ent minutes after it leaves the sun before it impinges on the earth, is in empty space, the doctrine of the conservation of energy is false.

Passing from physical conceptions to his statement about the state of opinion among physicists, we also find inaccuracies which, though perhaps of no particular importance in so very popular a history, nevertheless show that exact science is not the author's element. Certainly, there is no will get the idea that, Joule's results being ory of the steam-engine; and no adequate recognition is given to the work of Clausius. In regard to the kinetical theory of gases, the names of Krönig, Boltzmann, Van der Waals do not appear. Regnault, Amagat, Willard Gibbs are never mentioned.

In chemistry, we find such assertions as that hydrogen being univalent while oxygen is bivalent, "makes it plain that we must expect to find no more than three compounds of those elements." It did not make the matter plain to those who held to the strict univalence of chlorine; and Dr. Williams says nothing about variable valencies, but rather implies their fixity. The history of opinion concerning Mendeléef's law is inexcusably inaccurate after the admirable history of the matter by Venable. The importance of Newland's octaves is much exaggerated, since ideas upon the subject, about as nearly correct as his, were generally rife among advanced chemical thinkers of that day. Such comments might be continued to great length. It must suffice to say briefly that the chapter on psychology, although possessed of some merit, is less good than the others.

The Story of the Chinese Orisis. By Alexis Krausse. Cassell & Co.

the stock picture of the Chinaman as painted by the average Occidental. The writer much of what he has written, and probably no other book gives a more vivid and accuhypothesis from being perfectly exact and rate account of events in China during this past year. He pictures in lively style the universal habit of "squeezing," which means theft and corruption. It pervades every class, from the viceroy to the boy who carries your letters to the nost-office destroying one or two so as to save from the money given to buy stamps. Like a true Briton, Mr. Krausse believes in opium for the Chinese, declaring (p. 13) that "in the case of the overwhelming majority no ill effects are produced.""He is a stalwart for trade and British interests, and believes in thoroughly humbling the Chinese. He would abandon the vacillating policy of the past three years. and "revert to the manly method by which we asserted our dominion in the Far East."

> The author shows clearly the part which the various predatory nations have played in the dismemberment of China, as already accomplished. Great Britain has nearly 6,000 subjects in China, shipping in the treaty ports amounting to "upwards of 25,000 tons," (sic. p. 147), in reality over eight millions or about sixty per cent., while her commerce in 1899 reached a total of \$200.-000,000. Yet the amount of Chinese territory owned by Great Britain is under 550 square miles. Russia, on the contrary, has in China, including those in her colonies at Newchang and Port Arthur, but 1,600 subjects and no shinning worth speaking of, but has seized 888,830 square miles of territory which, with Mantchuria, practically hers, will amount to over 1,200,000 square miles. France, whose commercial interests in China are the smallest of any first-class Power's, has robbed China of an area of 315,250 square miles. It is hard for the Chinaman to understand the wealth and resources of Great Britain Notwithstanding that 60 per cent. of the total foreign trade is British, England's effective influence is as nothing compared with that of Russia. The author traces the failure of diplomacy to the fact that no European has yet learned the workings of the Chinese mind. He believes that with such a people no ordinary measures will Serve

The various wars which China has suffered "have failed either to inculcate respect for the superior power of other nations, or to moderate the intense self-complacency which is inherent in the Celestial character." Yet the impression one gets as he reads this book is that, from the standard of absolute morals, the Occidental man must seem to the Chinaman as abnormal, as proud, as subtle, and as malignant as the Westerner is sure the Chinaman is. Surely if there is ever to be a union or reconciliation of the Orient and the Occident, it must be not only by moral betterment, but by mutual moral betterment. The Chinaman of Mr. Krausse. and of so many other writers whose God is "trade" or "interests"-British or otherwise -is largely the phantasm of myth or distorted vision. Nor shall we ever be able to see clearly until we get the beam out of our own eve. Actual experience shows that the Chinaman, when treated as a human being. responds to such treatment very much as humanity all over the world does, though it In this handy volume of 200 pages we is also true that this response is the more

