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Marvels of Force

bers, 4,000 miles., which is the distance

from the surface to the center of the globe. Since the acceleration of gravity

in a mile. This product is 21,120,000. Now,

the formfula tells us to double this num-

ber, which accordingly becomes 42,240,000,

and ther to multiply by thirty-two, the

acceleration of gravity. Thus we got.

finally, 1,331,680,000. Referring again to

the square of the velocity and so we

must extract the square foot of 1.501.650.

me in order to obtain the simple velocity

Without carrying the calculation out to

root required is 36,760. This is the velocity

the last figure, we find that the square

expressed in feet per second, and dividing

by 5,200, we find that it amounts to very

nearly seven miles per second.

By GARRETT P. SERVISS.

"Kindly frame an illustration by which one may determine the speed and force radius into feet also, before we can make is expressed in feet, we must put the an object of given weight and density. the calculation. This is done by multishot from our earth, should attain in plying 4000 by 5,280, the number of feet

osss through out atmosphere into infinity. "It is not a recognized fact that centrifugal force, if sufficient, will overgravitation.

ome the power of and off to, at what speed would the earth have to revolve to throw off all detachable bjects, including our tmosphere?"-L B. Chicago.

Your first question

Seven miles per second, then, is the refers to what is known in astronomy as velocity with which a body falling from parabolic velocity." or 'velocity from an infinite distance would strike the sur-for to), infinity. The law governing this face of the earth, and, conversely, the velocity is derived by the methods of the same velocity, would have to be imparted calulus, too abstruce to be explained in to a projectile shot straight up from the a brief article, but easily understood and earth in order that it might go to an inapplied when put in the shape of a simple finite distance from the earth. We nerformula. Moreover, if you know that lect the effect of the realstance that the formula you can, at pleasure, solve many atmosphere would offer at the start. very interesting problems relating to the As to the force involved that would depend upon the mass, or weight, of the worlds around us

Briefly stated the formula is as fol-body. If it weighed one ton the momen-lows: The square of the velocity equals tum, as seven miles per second, would wice the product of the acceleration of be 73,920,000 foot-pounds. gravity by the radius of the attracting The answer to your second question is body from, or to, which the motion is that centrifugal force is perfectly candirected.

able of overcoming gravity if the earth's This needs a few words of explanation, rate of rotation be sufficiently accelerbut does not require any mathematical ated. The centrifugal force increases as knowledge beyond simple arithmetic. The the square of the velocity of rotation. acceleration of gravity means the speed The formula is: Cantrifugal force equals acquired during each second by any body the velocity squared, divided by the left iree to fall at the surface of the at- radius. In the case of the earth the centracting body. In your problem the at- trifugal force, at the equator, amounts, tracting body is the earth, and the ac-vith the actual velocity of rotation, to celeration of gravity at the earth's sur-1,289th of the force of gravity. Then, face is about thirty-two feet per second; if the velocity were increased seventeenthat is to say, a falling body acquires a fold the centrifugal force would balance velocity of thirty-two feet during the first gravity, because the square of seventeen second, twice thirty-two feet during the is 280. Any increase of velocity beyond second second, three time thirty-two feet that amount would send things flying during the third second, and so on, thirty-iwo feet being the amount of velocity At points north or south of the equator. constantly added during every second the centrifugal force at a given latitude that the fall continues. Is ascertained by multiplying the equathat the fall continues. The radius of the attracting body, in torial centrifugal force by the square of the case of the earth, is, in round num- the cosine of the latitude

Read it Here-See it at the Movies.

Runaway June By George Randolph Chester and Sillian Chester

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years back "From Sallie Fish, wedding portion-2,000 pounds."

The Latest in Fashions

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the formula, we see that this represents Same.

Hidden Faults of Many Wives

American Girl, Frequently Spoiled Before Marriage, Makes Husband Unhappy by Foolish Demands, Petty Jealousy of His Relatives and Other Failings. : : :

By ELLA WHEELER WILCOX.

Copyright, 1915, Star Company. The failings of men which lead to livorce are usually of a glaring nature of such a nature that he who runs may read. Drunkeaners, or the over toxicants, which de-

stroys the reasoning nowers "and the judgment; infidelity and all its ramifica tions, violent temper laginess and failure to provide for a family; these are the main chapters in the ook of masculine offenses, against But happy' homes. the offenses of wives. are so frequently subtile and elusive, and so welled from the public eye, that only those who live in the closest relations may discover

They are the little foxes in the vines fors. and parasites in the trees. The American girl is almost invariably a spolled thild serving long sentences who before she reaches adolescence. She rules her father and mother and her brothers walt upon her. She is vir- wives. The indolent wife, who settles tually the head of the house, and her down laxity into the comfort of a good wish is law and her whims are like royal home, satisfied with the fact that she is edicts. If she marries the spolled son of married to a man who loves her and una fond mother it is a case of Greek meet- conscious that she must make an effort ing Greek, and discord must ensue. And to keep her husband in love, is another If she marries an unsolfish and worship- likely candidate for the divorce court. ping husband she often forgets that there is such a thing as the turning of a of each hundred like to feel proud of crushed worm, and imposes upon his their wives. They enjoy seeing them patience and kindness and unsetfish- look well and regret to observe the efness until he walks forth to meet her fect of time upon their beauty. The only in the divorce court. Yet the weapons she has used in slay- attractive, and who allows self-induling Cupid have been concealed from all

her roof. And the undiscerning public is more than liable to believe she is the injured party when the divorce occurs. and dreary monotony which charfacter-ized the lives of their foremothers. The women of this generation are, in many caused by the suppression of the emonatures of their mothers and grandmothers, just as sons of clergymen

to to exces, frequently, everything which their fathers refused to do in reason. The granumothers and mothers who lived only to work and make the home comfortable for the mem folk produced, by the crucifixion of all natural desires pleasure and amusement, as descendants, a race of women pleasure-seekers. But in his taste for home life man.

create such a home and magnetize it with the love and enjoyment of a good coman's mind is to prepare an anter for heaven

Many a man inclined to stray into foridden folds and to seet: unwholesome as sociations would linger in this antercom were it provided for him by love and good sease, in place of his being forced

nto the uncatural surroundings of hotels. Petty jealousles of wives, hampering a cond hearted man in his impulses towards wintives and near friends, are offfimes causes of divorces. A man has been known to marry for love (as men usually do), and to set forth with every intention of being a fair and kind and just husband; but before many months she found his relatives, his men comrades and even his books and domestic pets objects of a small-minded woman's nagging jealousy. And cupid was driven out-of-doors, never to return.

Unreasonable extravagance of women is another cause of disaster to the marital association, and this propensity drives many a good-hearted man whose great desire is to please his wife into dishon esty and double dealing in business mat-

Behind prison doors today ninned through weakness and over-devotion to the whims of selfish and unthinking In our time and clime ninety-nine mer woman who does not try to keep herself gence and indolence to destroy her figure eyes save hushand's or other eyes under and complexion, is inviting unhappiness me into her home

In this busy age, when trains, ships, telegraphs and telephones keep the whole The passion of many women for hotel world in touch, men are aware of the for excitement and for display existence of women who understand the amounts to a discase. It it, perhaps, the art of defying time who remain attractswinging of the pendulum from the dull ive despite the passing of years. Even in necessity. They realize there is someways, suffering from a sort of hysteria thing lacking in the temperament of a woman who lets herself go merely because she is a wife and mother

Since men view the subject in this light. the wise woman will not permit her husband to feel ashamed of her. She will think of the art of preservation of her charms as one of her sacred duties, and she will regard the gymnasium and the study of physical culture and the practice of mental calisthenics with respect close to reverence.

In the new life which has come to changed little. He is the same in every generation. And the woman who wants women in the last generation there iles make the man she marries happy needs a danger of becoming too absorbed in to understand this fact; and whatever personal pursuits to keep in touch with else she may ask of him, to give him the tastes and ambitions of the husbandfirst the foundation of a comfortable, even to lose all interest in them. It is well for husband and wife to have beautiful well ordered and attractive their separate occupations and to follow home, where even the translant guest can feel the atmosphere of well being separate tastes and pleasures to a cer and content. This can be made only by tain degree. But that degree must never the mental emanations of its inhabitants, lead to diverging interests, and must A worvan who sets forth in matried never leave the husband feel solitary life determined to make a real worth- without the companionship or sympathy while wife and mother has chosen the of the wife, either in his business or his most wonderful and fascinating career it smusements; nor must the wife be left is possible for her to pursue, and its to find sympathy or admiration elsewhere scope is as wide as the universe. To than at home.

Victrola XI, \$100

Mahogany'or oak

the I have

TENTH EPISODE. A Prisoner on the Yacht

CHAPTER II-(Continued.) "That's something else I made for you in the pantry, dearie," explained the stowardess, in her coaxing whine, and bobbed her neck. "It's a fine stimulant. and soothing to the nerves."

June took the fragile glass in her hand. Its sheer beauty had won her. She inhaled daintily. The fragrance was most appealing. She looked at it again and smiled. She did feel faint and weak. she lifted the glass to her lips, and the tip of her tongue caught the delicious. flavor. Suddenly, as she tilted the glass. to drink, she caught the palld eyes of the stewardees fixed engerly upon her. The

woman's mouth was half open, and she was breathing hard. With a flash of intuition June jerked

her lips from the glass and threw it. crashing and splintering, into the fireplace.

"Why, dearie." exclaimed the stewardas, and in great agitation she pushed

a buttom at the side of the mantel. Jung's cyclashes lowered for an instant and ther lins set; then quictly she went into the little blue boudoir and sat thoughtfully upon the daintily upholstered settee.

The steward came pompously in

'Well, you've done it again, you." he growled as he surveyed the splintered fragments of the delicate Venetian glass. Percy," whined the woman and slared toward the boudoir door with her gallid eyes. She jerked her thumb in that direction, and then she winked. "That's you," snarled Wilkins. "You

always say it's a guest." "How much" whispered the woman in a sibilant hiss, which carried as it was

intended to do. "Them glasses is \$12 apiece, and it'll

be taken from your wages. That comes out of my pocket!

June bit her lips. 'Twelve dollars' It was a lot of money to a girl who had found dollars coming slowly and independence hard to win, but she picked up her purse. After all, she had no proof that the woman meant anything but kindlinges.

"Is this breakage charged against you?" asked June.

"Why, yos, dearie," A sniffle went up with the whine, "How much will it cost you?"

"Twelve dollars!" Sniffle. "But it's all

a part of our job, so never mind. dearie." 'I do not wish you to lose the money,

and quite thoughtfully June counted \$12 from her siender store. She added another for the customary tip and gave one to the man, and they thanked her most obsequibusly. As June returned to the boudoir the suppressed voices broke out again.

'No.' protested the woman in that whining hiss; "that's my money-the doltar's mime, any how."

"Nothing yours except what I give you," stated Percy Wilkins gruffly. "That's the law, and you know it. Clean up that mess, you," and he left the

The woman's whining mumble could be heard all the while she was cleaning up the fireplace. She was gone when June returned to the state room, but on the floor near the door was a yellaw leather bound blank book, its side worn like

Beneath this was the item; "Savings, Percy Wilkins-162 pounds." 'On the opposite page the first entry. Booking to the states,

"Percy and Salfy Wilkins. 22 pounds." After this the entries were all in dollars. On the ... 'Front' side the were chiefly the wages of Percy Wilkins and Sally Fish Wilkins, for they had appar ently gone into private service immediately

(To Be Continued Tomorrow,)

Lucile has added brilliant bits of color to this suit of natural colored khaki kool tussore in the lining of pussy willow silk showing a white ground with peacock eyes in orange and gray.

Lucile has dropped an overskirt of Van Raalte tulle in bright emerald green over pale pink net embroidered in gold, and has given the crinoline effect to the overdress.



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