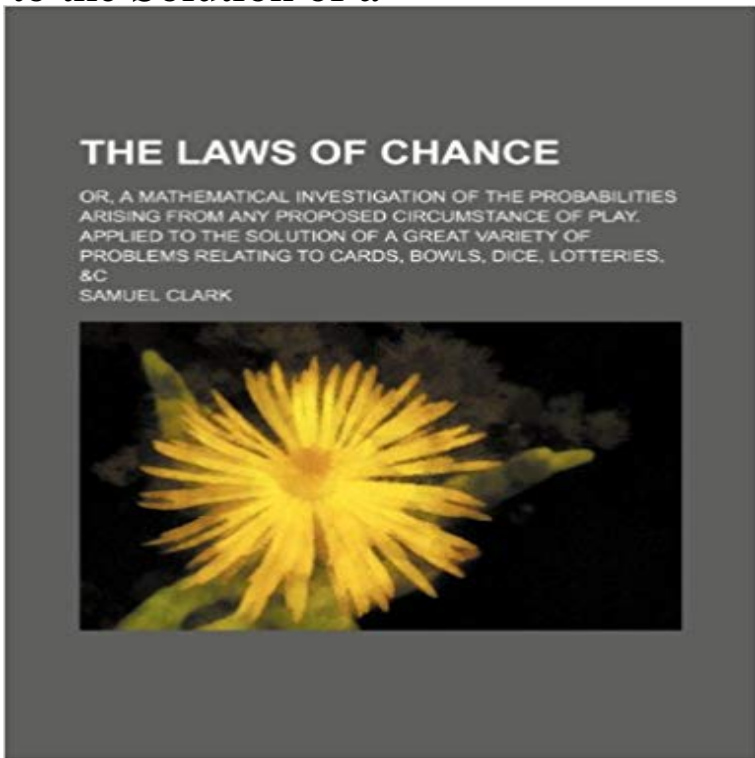# The Laws of Chance; Or, a Mathematical Investigation of the Probabilities Arising from Any Proposed Circumstance of Play. Applied to the Solution of a

This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1758. Excerpt: ... have $f + + t + x\ i = Tvtv$? for the probability sought. PROBLEM LIX. To find at the game of hazard, the probability of the setter for winning the sum deposited, upon all the suppositions of main and chance.. Solution. In order to facilitate the operation, I have in the table annexed, inserted the scheme of the game. Let us first suppose VII. to be the main-, then the caster before he begins to throw, has eight chances for the whole sum deposited, that is, he has eight chances for VII. and XI, either of which intitles him to that sum, four chances for nothing, viz. those for II. III. XII. six chances for f of the stakes, namely, those for IV. and X. eight for f-thereof, those for V. and IX. and ten chances for VI. and VIII.. these last intitle him to of the stakes, whence if the sum deposited be S, the casters expectation thereon will be $sx,+6xf+8x44.oxAxS$, and thereforehis required probability of winning the whole sum deposited is which being taken from unity leaves f-f-j-for the setters Suppose VI. or VIII. to be the main, then the chances XI. II. III. intitle the setter to the whole stake, or sum deposited. If V. or IX. should come up, the setters share would be f of S, if IV. or X. come up, he will be intitled to i of S, and if VIII. happens to be thrown, his expectation will be j-S, and lastly, if the chance should happen to be VII. the setters expectation in that case would be.jv of S, now these several expectations being respectively multiplied by their probabilities of taking place, gives gi!HsxWx x S, the setters total expectation, and consequently his required probability equal to iVV, wnence tne casters is rVrrs- If V. or IX. be the main, then the letters probability for winning the whole stake, will by the same wa...

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