



Popsicle Stick Bridge Estimate + Design (Bridge Design + Estimation Series - Module #1)

R.N. CHERCHUK

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Are you a student at a university or college? Are you paying a tutor to help you maintain your grades? Are you sitting in classes where the professor does not solve enough problems? Do you have a text book that only briefly illustrates a problem? Are you interested in becoming more proficient with your topics and understanding different ways in which a problem can be solved?

If you answered YES to any of the above questions, then this Bridge Design + Estimation Series Series will help you. The author has taught mathematics, engineering physics, strength of materials, structural design and analysis in a university and college setting for more than 25 years. He has based this series on how students learn and the questions that were asked in classes.

You will get a STEP by STEP approach with MULTIPLE SOLUTION approach. You will become proficient in solving these types of problems. This series is written so that the student can learn without the use of a tutor. Topics covered in each eBook will be comprehensive. A small price to pay to have a confident edge in solving these types of problems!!

This eBook deals with making a wooden bridge out of Popsicle sticks, basswood, or balsa wood it also points you to other eBooks at a low cost that will help you solve these types of problems. It discusses how to go about this and how to analyze this bridge “as if” it was a real life bridge. You will see how to estimate the weight of the bridge, and how to “predict” which members might fail before your “expected” ultimate load is reached. It will explain how to design your bridge so more than one load location can be used for the load crush test. It will discuss the glue to use and how to design the joints and members so that you can achieve an “efficiency” rating of many thousands of times the initial weight of your bridge (depending on the type of bridge you choose and the material the bridge is made from). It will allow you to consider this as you might if you were an engineer responsible for such a design in timber, or steel, for example. This eBook is great for anyone who might want to WIN a competition and who wants a distinct advantage into achieving the “highest” load at failure / initial weight ratio. In real life we attempt to design the “lightest” structure to minimize costs, so a project like this will give you the keys to understanding the fundamental concepts of bridge design. This eBook will also discuss what this bridge might carry if you considered a scaled down freight train using this bridge. Check it out and WIN your next competition.

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