Unwanted noises:

1. The material property of papers may vary from paper to paper.
2. The humidity in air will affect the elasticity of paper.
3. The angle between the finger and a frog will vary in each jumping test.
4. The friction coefficient between frog and finger may change because of sweat on hand.
5. The finger placement on a frog will vary in each jumping test.

Handle the noises: do more replication and randomize the experimental trials to make noises more uniformly and more randomly distributed.



* Day: 6/4 Tuesday
* time: 8:30pm~9:30pm
* place: lab



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| source of variation | SS | DOF | MS | F | F\_0.05 |
| E2 | 26642.01 | 1 | 26642.01 | 8.197682 | 3.979807 |
| E12 | 52003.13 | 1 | 52003.13 | 16.00123 | 3.979807 |
| error | 224246.2 | 69 | 3249.945 |  |  |
| total | 302891.3 | 71 |  |  |  |