



The alternating sum counts each element of U a certain number of times; an element in $A'B'C'$ (the shaded region) is counted only in $S_0 (= |U|)$ and not at all in any of the other terms, so each such element contributes exactly one to the alternating sum, which is what we want it to do.

Now, look at an element in exactly one of the sets A, B, C . For example, suppose the element is in $AB'C'$. It gets counted once in S_0 and then subtracted once in S_1 , and is not counted again. The net contribution of this element to the alternating sum is zero.

E21 How many times does an element in exactly two of the sets (for example, an element in ABC') get counted in each of the terms S_0, S_1, S_2 , and S_3 ? Therefore, what is its net contribution to the alternating sum?

E22 What is the net contribution of an element in ABC to the alternating sum?

The foregoing analysis shows that each element of $A'B'C'$ contributes exactly 1 to the alternating sum $S_0 - S_1 + S_2 - S_3$, whereas all other elements contribute 0. It follows that the alternating sum is equal to the number of elements in $A'B'C'$, which establishes the inclusion/exclusion formula for three sets. In general, the same reasoning applies for any number of sets. Elements in $A'_1 A'_2 \dots A'_n$ are counted once in the alternating sum $S_0 - S_1 + \dots \pm S_n$, whereas all other elements make no contribution to this sum. This last claim depends on the fact that $1 - 2 + 1 = 0$, $1 - 3 + 3 - 1 = 0$, $1 - 4 + 6 - 4 + 1 = 0$ and, in general,

$$\sum_{k=0}^m (-1)^k \binom{m}{k} = 0 \quad \text{for } m \geq 1$$

(Recall why this is true; if necessary, look back at problem B14.)

E23 Let $n = 5$, and show that an element in $A_1 A_2 A_3 A_4 A'_5$ contributes 0 to the alternating sum $S_0 - S_1 + S_2 - S_3 + S_4 - S_5$.

Combinatorics A Problem Oriented Approach

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Teaching Statistics Using Baseball, 2nd Edition James Albert, 2017-02-28 This book illustrates basic methods of data analysis and probability models by means of baseball statistics collected on players and teams The idea of the book is to describe statistical thinking in a context that will be familiar and interesting to students The second edition of Teaching Statistics follows the same structure as the first edition where the case studies and exercises have been replaced by modern players and teams and the new types of baseball data from the PitchFX system and fangraphs.com are incorporated into the text

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