

2. Probabilities of sequences.

Assume that the four bases A, C, T, and G occur with equal likelihood in a DNA sequence of nine monomers.

- (a) What is the probability of finding the sequence AAATCGAGT through random chance?
- (b) What is the probability of finding the sequence AAAAAAAAAA through random chance?
- (c) What is the probability of finding any sequence that has four A's, two T's, two G's, and one C, such as that in (a)?

- (a) Each base occurs with probability $1/4$. The probability of an *A* in position 1 is $1/4$, of *A* in position 2 is $1/4$, of *A* in position 3 is $1/4$, of *T* in position 4 is $1/4$, and so on. There are 9 bases. The probability of this specific sequence is $(1/4)^9 = 3.8 \times 10^{-6}$.
- (b) Same answer as (a) above.
- (c) Each specific sequence has the probability given above, but in this case there are many possible sequences which satisfy the requirement that we have 4 *A*'s, 2 *T*'s, 2 *G*'s, and 1 *C*. How many are there? We start as we have done before, by assuming all nine objects are distinguishable. There are $9!$ arrangements of nine distinguishable objects in a linear sequence. (The first one can be in any of nine places, the second in any of the remaining eight places, and so on.) But we can't distinguish the four *A*'s, so we have overcounted by a factor of $4!$, and must divide this out. We can't distinguish the two *T*'s, so we have overcounted by $2!$, and must also divide this out. And so on. So the probability of having this composition is

$$\left[\frac{9!}{4!2!2!1!} \right] \left(\frac{1}{4} \right)^9 = 0.014.$$

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Lingjun Ying



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Chemical Engineering Education ,1985 *Air and Gas Drilling Manual* William C. Lyons,James H. Stanley,Francisco J. Sinisterra,Tom Weller,2020-09-22 *Air and Gas Drilling Manual* Fourth Edition Applications for Oil Gas and Geothermal Fluid Recovery Wells and Specialized Construction Boreholes and the History and Advent of the Directional DTH delivers the fundamentals and current methods needed for engineers and managers engaged in drilling operations Packed with updates this reference discusses the engineering modelling and planning aspects of underbalanced drilling the impacts of technological advances in high angle and horizontal drilling and the importance of new production from shale in addition an in depth discussion is included on well control model planning considerations for completions along with detailed calculation examples using Mathcad This book will update the petroleum and drilling engineer with a much needed reference to stay on top of drilling methods and new applications in today s operations Provides key drilling concepts and applications including unconventional activity and directional well by gas drilling Updated with new information and data on managed pressure drilling foam drilling and aerated fluid drilling Includes practical appendices with Mathcad equation solutions **HP-41**

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Proceedings - Production Operations Symposium ,1983 *SPE Reprint Series* ,1988 **Surfactant/polymer Chemical Flooding** ,1988 **Contracts and Grants for Cooperative Research on Enhanced Oil and Gas Recovery and Improved Drilling Methods; Progress Review** United States. Dept. of Energy,1979 **Exploring Osaka** David M. Dunfield,1993 A comprehensive English language guide to the city of Osaka for business travellers and tourists alike Second only to Tokyo as a banking and trade centre of Japan Osaka is a centre of tradition and culture as well the home of bunraku puppet theatre for example and is minutes by rail from Japan s ancient capitals of Kyoto and Nara A variety of suggested sightseeing itineraries are included as well as recommended museums restaurants and hotels a list of festival dates and sources of additional information

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