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system of units si there are seven fundamental quantities length mass time electric current temperature amount of substance and luminous intensity these fundamental quantities provide a framework for describing and measuring various physical phenomena and are the starting point for deriving all other physical units basic quantities the following four quantities are used when we talk about mechanics they are often called base units as other units can be made by combining the base units length length is used to locate the position of a point in space it describes the size of a certain physical system once you have length you can have area and yolume in engineering and science dimensional analysis is the analysis of the relationships between different physical quantities by identifying their base quantities such as length mass time and electric current and units of measurement such as meters and grams and tracking these dimensions as calculations or comparisons are performed about this 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