

# Axioms of Measurement for Fundamental and Derived Physical Entities: Inherent Meaning of Measurement Process

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Measurement  
for Fundamental  
and Derived  
Physical Entities  
Inherent Meaning of  
Measurement Process  
Professor Vasu H Rao**

The fundamental nature of measurement is examined by considering the intuitive measurement process of physical entities such as length, time, mass and temperature.

From this study four general axioms that are necessary and sufficient for the definition and measurement of an entity are formulated. The theorems and corollaries, which are derived from these four axioms define and establish the intuitive procedure or process used in the measurement of an entity. The concept of derived entities and the fundamental entities is formally defined and their relationship is explained. These axioms and the theorems derived from them have been logically used to establish the type of mathematical relationship that is possible between the measured values of the derived and fundamental entities. It is shown, that the measured value of a derived entity may only be expressed as a product of the powers of the measured values of chosen set of elements of fundamental entities required in the definition of the derived entity. A logical definition for the dimensions of a derived entity follows from this relationship. The relationship of measured values of entities which are inter-dependent is examined and the empirical relations and dimensional relations are defined. Buckingham's Pi-Theorem which states that a functional relationship amongst measured values of the entities which are inter-dependent may always be expressed as a mathematical relationship of non-dimensional products formed from the measured values of elements in the relationship, is established as a logical consequence of the definition of dimensional relation of inter-dependent physical entities.

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Column 8 is derived similarly from column 1 the multiplier is 4 and. **watryu2d PDF Axioms of Measurement for Fundamental and Derived** - Buy Axioms of Measurement for Fundamental and Derived Physical Entities: Inherent Meaning of Measurement Process book online at best prices **The Meaning of Utility Measurement - UAH** Buy Axioms of Measurement for Fundamental and Derived Physical Entities: Inherent Meaning of Measurement Process online at best price in India on **binamabook133 PDF Axioms of Measurement for Fundamental and** Axioms of Measurement for Fundamental and Derived Physical Entities: Inherent Meaning of Measurement Process: : Prof Vasu H Rao: Libros en **Buy Axioms of Measurement for Fundamental and Derived Physical** bookdf5 Axioms of Measurement for Fundamental and Derived Physical Entities Inherent Meaning of Measurement Process by Vasu H Rao eBook PDF (0) **PDF prahapdfcc1 Axioms of Measurement for Fundamental and** Axioms of Measurement for Fundamental and Derived Physical Entities: Inherent Meaning of Measurement Process 15,12 EUR\*. 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