

## The Research Instruments

Tools refer to the questionnaire or data gathering instrument to be constructed, validated and administered.

Tools can also be interview guide and/ or checklist. If the instrument is prepared by the researcher, it should be tested for validity and reliability. However, if the instrument is standardized, the student should indicate its description as to its items, scoring and qualification.

The researcher must explain its parts, and how the instrument will be validated. The instrument to be used should be appended (except for standardized). For scientific and experimental researches the materials and equipment to be used in the experiment must be specified.

# Instrumentation In Scientific Research

**Yicheng Fang**



## **Instrumentation In Scientific Research:**

The Instrument World ,1929      *Instrumentation Between Science, State and Industry* B. Joerges,Terry Shinn,2001-11-30

This book explores a little studied arena that exists between science and technology an arena in which a singular and important variety of open ended multi purpose instrumentation is developed by practitioners neither scientist nor engineer call them research technologists for use in academia industry state metrology and technical services and considerably beyond The generic instrumentation designed in this almost subterraneously institutionalized professionalized interstitial arena fuels both science and engineering work This involves intermittent crossings of the boundaries that demarcate and protect the conventional cognitive and artefact cultures familiar to many historians and sociologists Research technologists thereby comprise a distinctive but never distinct transverse science and technology culture that generates a species of pragmatic universality which in turn provides multiple and diversified audiences with a common repertory of vocabularies notational systems images and perhaps even paradigms Research technology practitioners deliver a lingua franca that contributes to cognitive material and social cohesion Research technology is about the complementarity between boundary crossing and the stability maintenance of boundaries

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