

# Reading Response 2

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## 1 What is the chapter about?

- The third chapter provides a systematic research design approach.
- It encourages creating a concept map with all the properties to be measured and their links or relationships with each other. It enables better understanding of cause and effect between the measurable properties and the analytical relationships between them which enables testing validity.
- The chapter touchbases on various parameters that a researcher should be clear about before starting a research. Some of these factors include what are the properties/concepts that will be measured and what their relationships with each other are, what the unit of analysis would be and the sampling size.
- The fourth chapter categorizes the data collection technologies and provides the metrics that can be used for evaluating these technologies.
- The fifth chapter introduces the various possible research approaches for data collection for occupants behavior; namely in-situ, laboratory, virtual-reality, and survey. It also discusses its advantages and disadvantages, enabling future researchers to decide which research approach matches his problem.

## 2 What are my thoughts on the chapter?

- Being new to research, the third chapter introduced me to very minute details about how to go about a research and what all parameters need to be taken into consideration before starting data collection and analysis for a research.
- The fourth chapter helped me understand the various technologies and how I can evaluate the best match for my research.
- The fifth chapter talked about the various ways of performing data collection or occupant monitoring. The advantages and disadvantages mentioned in the chapter clears out most questions I had about the various approaches. It makes it easier for deciding the best possible match for a given problem statement.

## 3 What are some topics I would like to discuss?

- The third chapter says, we decide and finalize the parameters before the research. What if we come across some parameters in between the data collection phase which is actually affecting the action. Can we not include any new parameters at this stage.
- Should privacy concerns for using a particular technology, also be considered as an evaluating metrics.
- The fifth chapter did not mention simulation as a research approach, why is that?

- Direct observation can also be a research approach, but it may be biased or not a true representation of an entire population; Is that the reason why it's not mentioned as a research approach?