## Ref: 0001 Analysis

stratified corresponding to their time scales of events

modules and virtual machines. Modules can be

Source: "Great Principles of Computing", 25/04/2016

Reliably moving information

What can and cannot be

Representing, storing, and

Effectively using many

autonomous computing

Measuring whether systems

Structuring software systems

produce intended

for reliability and

computations

dependability

retrieving information from

between locations

computed

media

agents

Great Principles of Computing Category Focus

Communication

Computation

Recollection

Coordination

Evaluation

Design

Examples	Focal Chapters
Minimal-length codes, error-correcting codes, compression of files, cryptography. Classifying complexity of problems in terms of the number of computational steps to achieve a solution. Characterizing problems that have no algorithmic solution.	Information Information Networking Machines Programming Computation
All storage systems are hierarchical. No storage system can offer equal access time to all objects. The locality principle: all computations favor subsets of their data objects for extended intervals.	7. Memory 11. Networking
Protocols that lead the parties to have the same knowledge, eliminate conditions that cause indeterminate results, or synchronize. Choice uncertainty principle.	Domains Parallelism Queueing
Predicting system throughput and response time with queueing network models, designing experiments to test algorithms and systems.	9. Queueing 10. Design
Complex systems can be decomposed into interacting modules and virtual machines. Modules can be	:0. Design

I read this book before the controlled assessment, therefore when posed with the task of explaining why I picked the computational approach to the task-I quickly found out that the task was near impossible without trying to explain what to the computational approach was.

that manipulate objects.

As this was my reasons for choosing the computational approach, I went to explain what the computational method was using my own words. Halfway through the description it became clear I was just stating that you are applying the principles of computing to the given task.

This information will also be useful in the design and implementation phases of the project, as this is an overview of the fundamental aspects of computing, it would make sense that as I have chosen to use the computation method, that each step I take in designing and implementing this project would follow the principals.

Although I do count this information as my own knowledge at this point- I could list them without the aid of this book. I am well aware that I found out about these principals from this book. Therefore I decided that as I was listing each one I could probably count reading the book as prior research and should then credit it. I believe that over the course of this project I will have to continue to credit this book for some of my background knowledge.

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