Abstract

Most of the students who takes physics lectures at college related with engineering or architecture, often find some complexity in trying to understand the topics they're studying. Math difficulty isn't the main problem; however, the interpretation of the physical phenomena that are being studied could be a real challenge for them.

To solve this problem a solution could be the production of a simulation software that allows us to observe the evolution of each physical magnitude, specifically of RC and RL circuits in direct current and transient state, with some theory explanation at its side.

We'll approach this problem using latest web development technologies, where we'll use programming languages such as *JavaScript* and enviroments like *NodeJS*. In addition, a *python* script will be implemented to verify that results generated by the final application are correct. This program will generate an image with the results that we should expect from the simulation.

Finally, we'll provide a conclusion of the topic we've been discussing about, in wich new lines of research will be proposed.

Keywords: simulation, RC circuit, RL circuit, direct current, transient state