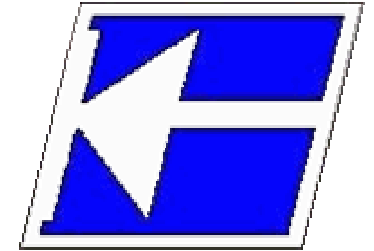


Centro Federal de Educação Tecnológica de Santa Catarina
Departamento de Eletrônica



Retificadores

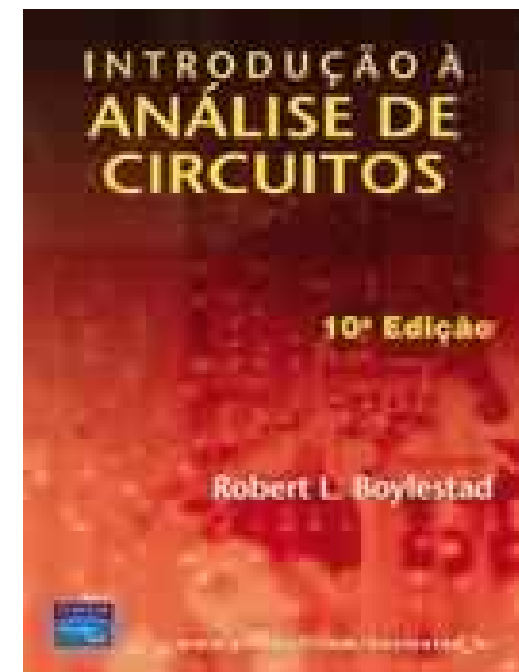
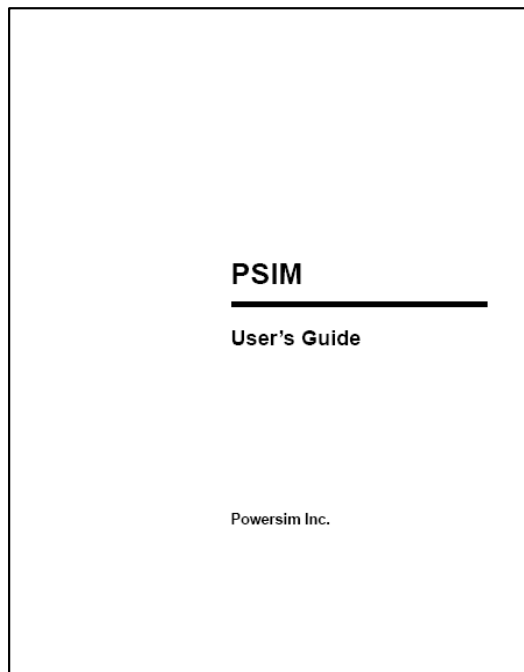


Transitórios em Indutores
e
Simulação de Circuitos

Clóvis Antônio Petry, professor.

Florianópolis, março de 2007.

Bibliografia para esta aula



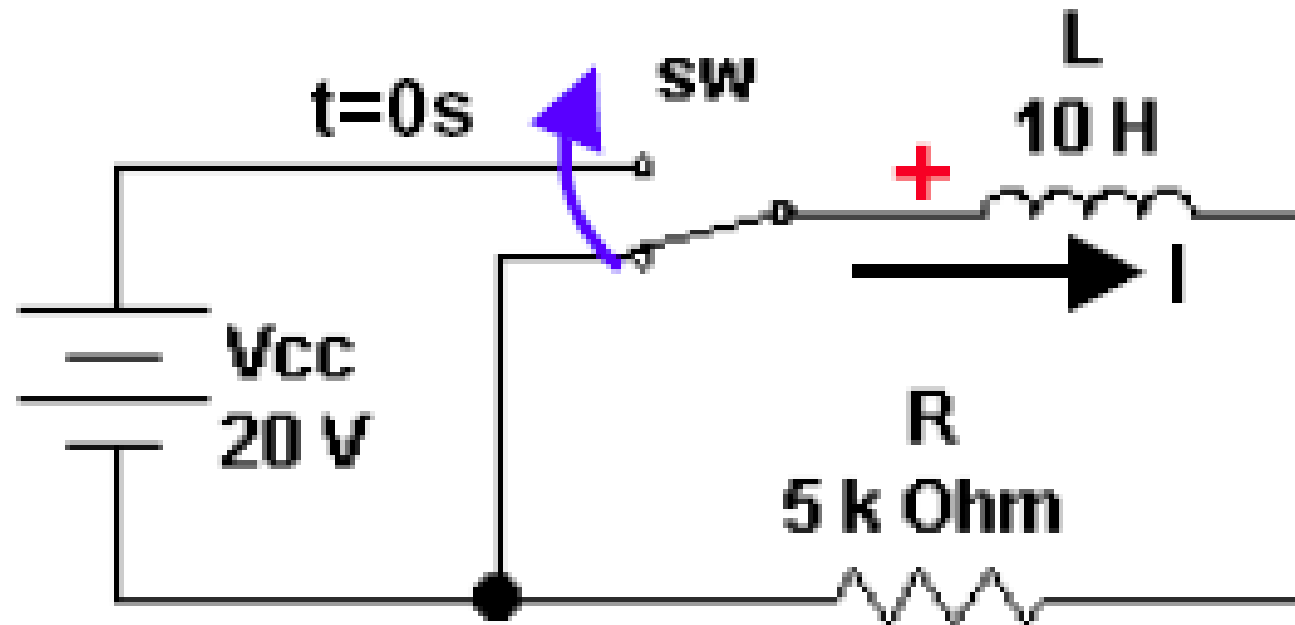
Nesta aula

Seqüência de conteúdos:

1. Transitórios em indutores;
2. Simulação de circuitos (PSIM).

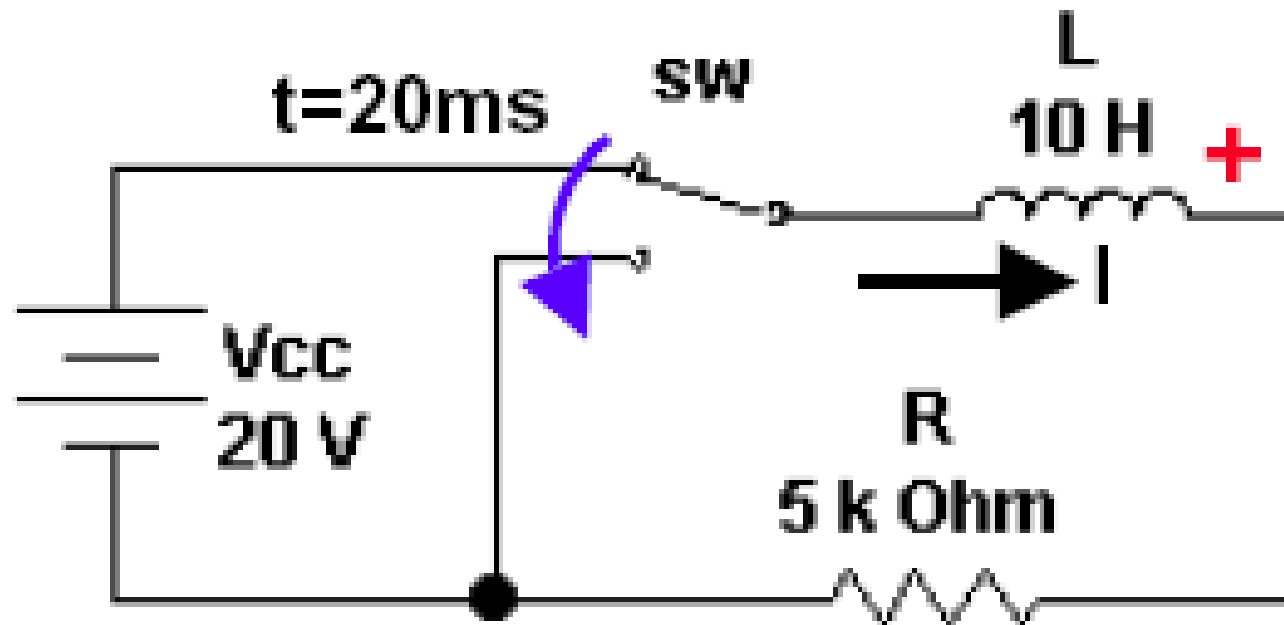
Transitório de carga e descarga de um indutor

Exemplo 11.1:



Transitório de carga e descarga de um indutor

Exemplo 11.2:



Simulação de circuitos



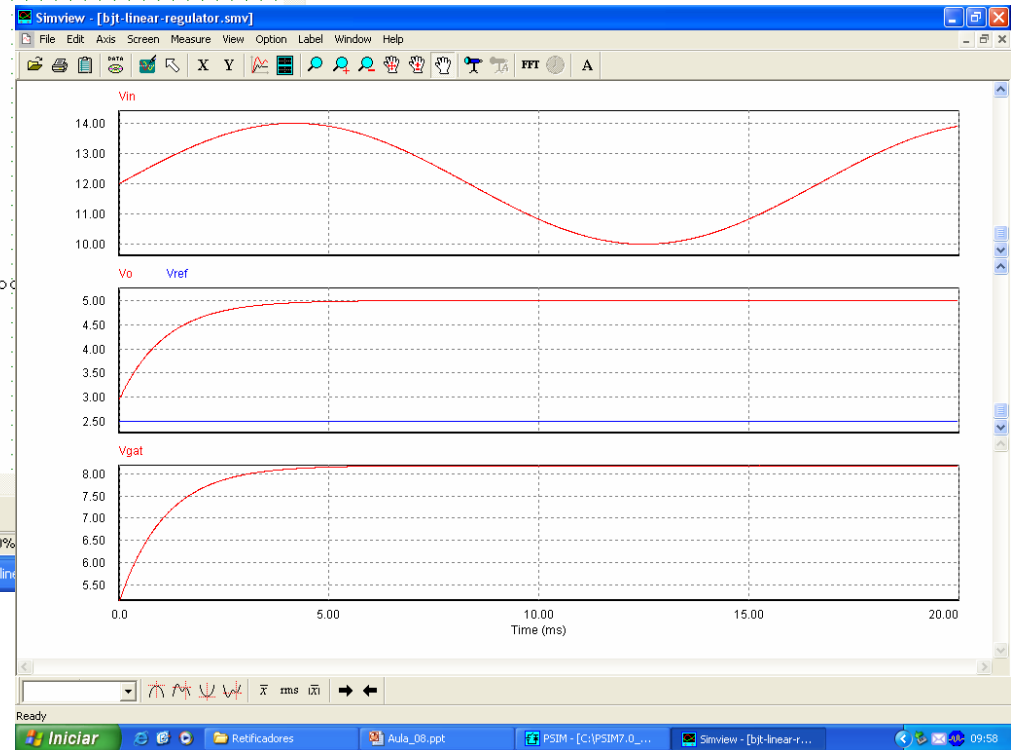
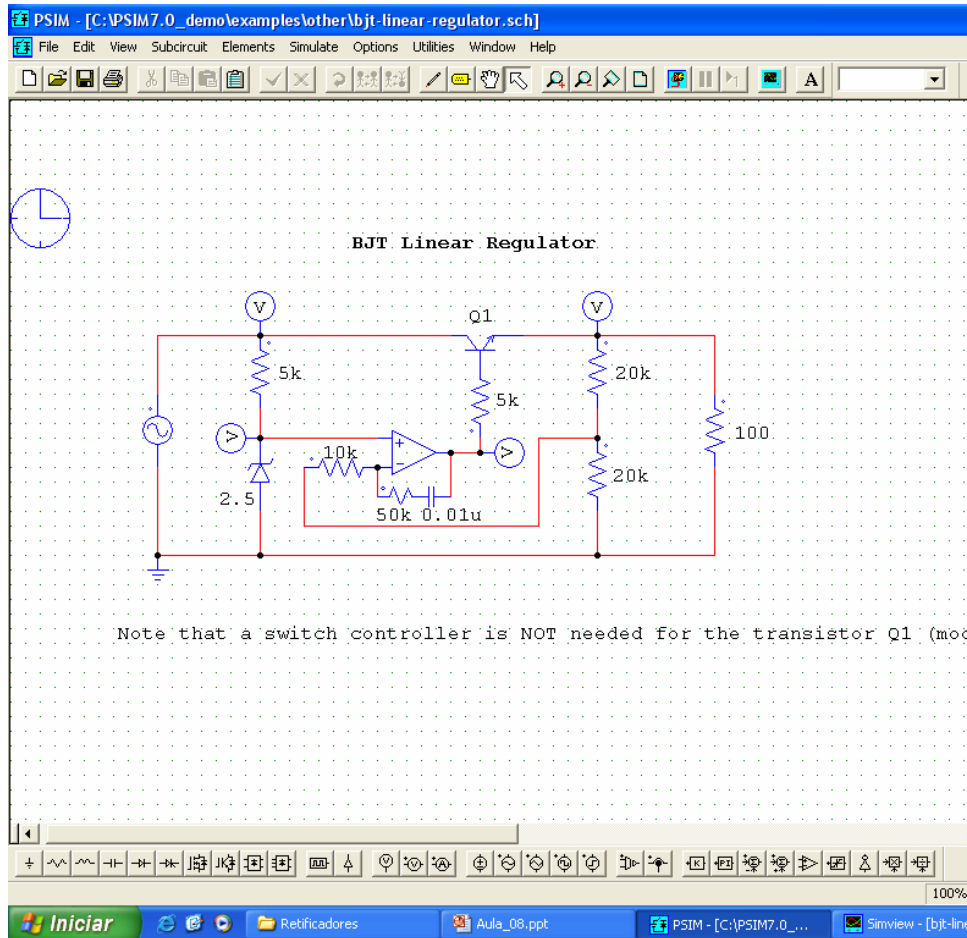
www.powersimtech.com



Baixar versão Demo

A screenshot of the POWERSIM website as seen in a Microsoft Internet Explorer browser window. The browser's address bar shows the URL "http://www.powersimtech.com/". The website has a blue header with the POWERSIM logo and a navigation menu with links for Home, Products, Download, Purchase, Support, Customers, Contact Us, and Site Map. The main content area is divided into two columns. The left column features a CD-ROM image and links for "PSIM Version 7" (described as "The ultimate simulation environment for power conversion and control"), "Buy Now", "Download" (with a sub-link for "Download the FREE evaluation version of PSIM"), and "FAQ" (with a sub-link for "Frequently-asked questions"). The right column features a large image with the text "Solving Your Need in Research and Product Development" and the POWERSIM logo. Below this is the heading "Powersim Inc." followed by a paragraph: "Powersim develops and markets leading simulation and design tools for research and product development in power supplies, motor drives, and power conversion and control systems." Another paragraph states: "Our mission is to provide the finest analysis and design tools in the industry. We strive to increase customers' efficiency and productivity by delivering software that reduces the development cost and time-to-market, and is powerful, robust, affordable, and easy and enjoyable to use." Below this is a "What's New" section dated "June 2006" with the heading "New PSIM Version 7.0:" followed by the text: "Powersim is pleased to announce the release of the new PSIM Version 7.0. With enhanced user interface, interactive simulation capability, magnetics modeling, and thermal analysis, PSIM 7.0 sets a new standard for the simulation and design of power electronics, motor drives, and control systems." The browser's taskbar at the bottom shows the "Iniciar" button, several icons, and the text "Retificadores", "Aula_08.ppt", and "Index - Microsoft Int...". The system clock shows "09:53".

Simulação de circuitos



Simulação de circuitos

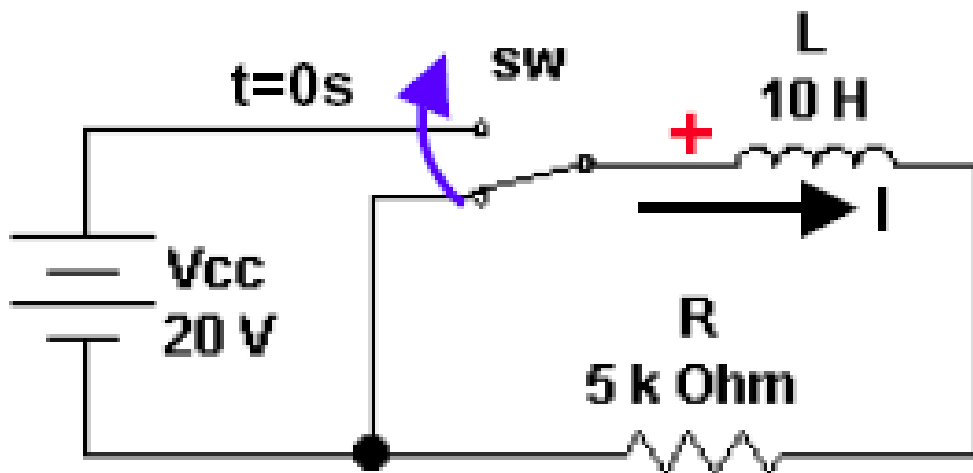
Exposição inicial:

1. Como instalar o software;
2. Executando o programa;
3. Abrindo um exemplo (bjt-linear-regulator);
4. Identificando os principais elementos;
5. Simulando um circuito;
6. Analisando os resultados de simulação;
7. Entre outros ...

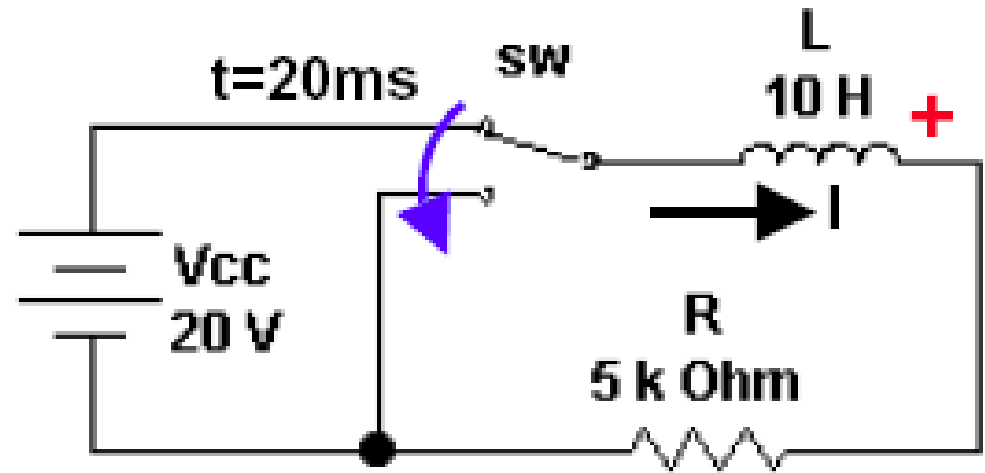
Simulação de circuitos

Simular os circuitos:

1. Exemplo 11.1;
2. Exemplo 11.2



Transitório de carga



Transitório de descarga

Na próxima aula

Seqüência de conteúdos:

1. Circuitos magnéticos;
2. Acoplamento magnético.