

MINICURSO: PSCAD

Cleiton Magalhães Freitas



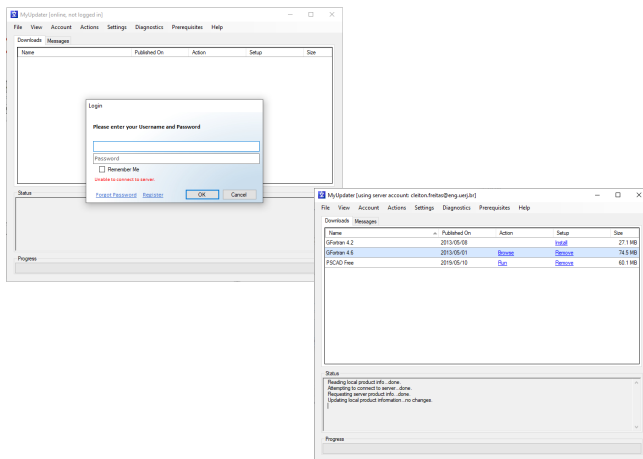
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Visão Geral do PSCAD

Primeiros Passos no PSCAD

PSCAD: Versão Gratuita

apenas um teste



PSCAD: Versão Gratuita

The screenshot displays the PSCAD Free software interface. The top menu bar includes Home, Project, View, Tools, and Utilities. Below it is a toolbar with various icons for file operations (Cut, Copy, Paste, Delete), simulation (Clean, Build, Build Modified, Run, Stop, Pause, Skip, Step, Snapshot, Slow), and editing (Plot Step, Save Scenario, Delete Scenario, View Scenario, Active Scenario, Back, Forward, Up, Undo, Redo, Select, Wire Mode, Zoom In, Zoom Out, Zoom Extent, Zoom Rectangle). The main workspace is titled 'master:Main() Start Page' and displays a 'Welcome to PSCAD!' message. The left sidebar shows a tree view with 'Workspace' containing 'Unfiled', 'Projects', 'master (Master Library)', and 'Simulation Sets'. The bottom status bar shows 'Build Messages', 'Runtime Messages', 'Component Wizard', and 'Search'. The main content area is divided into three columns: 'Updates', 'News', and 'Videos'. The 'Updates' column contains two entries: 'PSCAD v4.6.3 Update 5' (dated 10/21/2020) and 'PSCAD v4.6.3 Update 4' (dated 08/05/2020). The 'News' column contains two entries: 'New PSCAD Webinar Series' (dated 05/27/2020) and 'COVID-19 Update' (dated 03/25/2020). The 'Videos' column contains two entries: 'Blackbox features - PSCAD Version 5' and 'PSCAD™ V5 - New Feature Blackbox'. The 'Recent Videos' section at the bottom right shows 'Blackbox features - PSCAD Version 5' (dated 08/26/2020).

Welcome to PSCAD!

[Go To MyCentre](#)

Updates

PSCAD v4.6.3 Update 5

10/21/2020 07:12:03 PM

PSCAD v4.6.3 Update 5 is now available for eligible users. Recent updates provided by some anti-virus programs had triggered the blocking of PSCAD compile time and runtime batch files, as they contained multiple period '.' characters. These filenames have been changed to include only a single period, thereby resolving the blocking issue. We have also included some improved licensing error logging.

For more details about this update, please contact sales@pscadd.com.

PSCAD v4.6.3 Update 4

08/05/2020 02:15:51 PM

We are pleased to announce the release of PSCAD v4.6.3 Update 4 which supports TLS 1.2, includes an updated Master Library 4.6.3.2, and supports improved lock-based and certificate licensing.

All Professional v4.6.3 and Educational Edition licenses are eligible for this update. Those with active maintenance can obtain the download via MyCentre. If it is not automatically available in your MyCentre account, please contact your workgroup administrator, or sales@pscadd.com.

For more details about this update, please click [here](#).

News

New PSCAD Webinar Series

05/27/2020 08:29:42 PM

We are happy to announce we are hosting another Webinar Series!

For topics, dates and details visit our website [here](#).

We hope you can join us!

COVID-19 Update

03/25/2020 03:06:58 PM

The health and safety of our employees and customers remains our top priority. Until further notice, PSCAD will operate as a virtual company and all employees will be working from home or a safe remote location. We are focused on remaining available for our clients, and will continue to operate with the same timeliness that our customers and colleagues expect from us. Please stay safe and healthy.

Videos

Blackbox features - PSCAD Version 5

08/26/2020 04:09:31 PM

PSCAD™ V5 - New Feature Blackbox

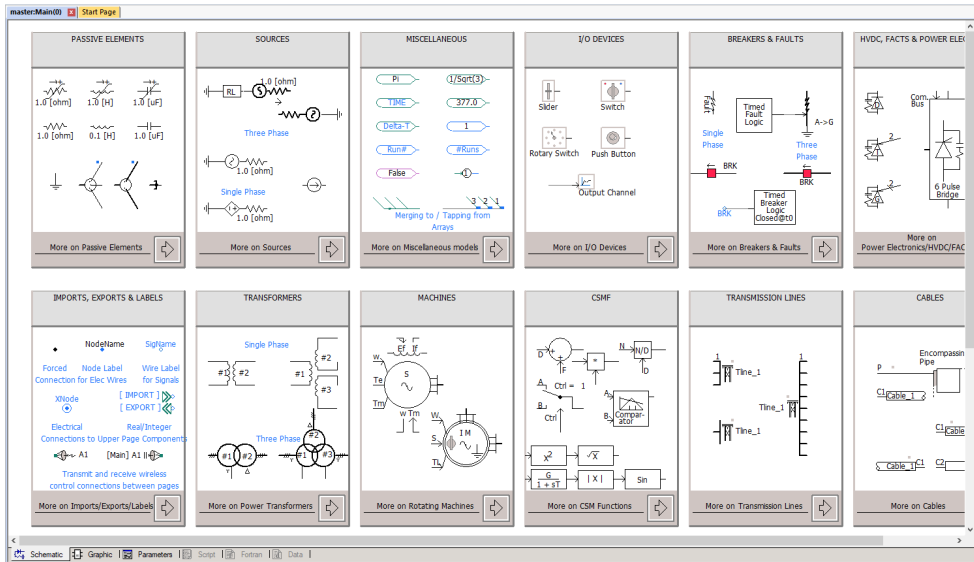
08/26/2020 04:09:31 PM

Recent Videos

[Blackbox features - PSCAD Version 5](#)

08/26/2020 04:09:31 PM

PSCAD: Biblioteca Master



PSCAD: Biblioteca Master

master:Main(0):Passive(0) Start Page

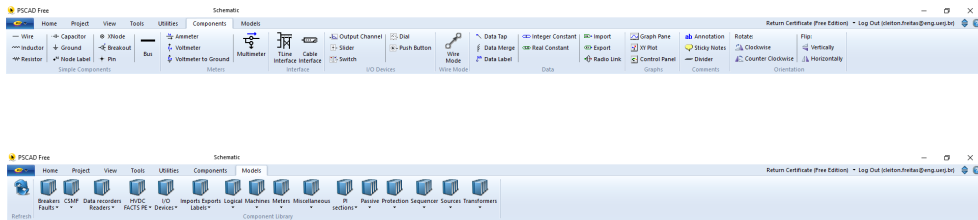
The screenshot displays the PSCAD Master Library interface, which is organized into several categories of passive components:

- RLC Branch Components:** This section includes symbols for a resistor (1.0 [ohm]), an inductor (0.1 [H]), and a capacitor (1.0 [uF]). Below these symbols, a note states: "Series or Parallel Combinations or RLC are Automatically Collapsed."
- Series RLC Tuned Filter:** This component is represented by a series combination of a resistor (1.0 [ohm]), an inductor (0.1 [H]), and a capacitor (5.0 [uF]).
- High Pass RLC Filter:** This component is represented by a parallel combination of a resistor (1.0 [ohm]) and a series combination of an inductor (0.1 [H]) and a capacitor (5.0 [uF]).
- Band Pass RLC Filter:** This component is represented by a parallel combination of a resistor (1.0 [ohm]) and a series combination of an inductor (0.1 [H]) and a capacitor (5.0 [uF]).
- C-Type Filter:** This component is represented by a series combination of a capacitor (1.0 [uF]) and a parallel combination of a resistor (1.0 [ohm]) and an inductor (0.1 [H]).
- Runtime Configurable Passive Branch:** This component is represented by a variable resistor symbol.
- Frequency Dependent Network Equivalent:** This component is represented by a box labeled "FDNE1" with three terminals (1, 2, 3) and a note: "Frequency Dependent Network Equivalent".
- Variable RLC Components:** This section includes symbols for a variable resistor (1.0 [ohm]), a variable inductor (1.0 [H]), and a variable capacitor (1.0 [uF]). Below these symbols, a note states: "Allows entry of numbers (like 1.0) or Variable Names (ABC)...".
- Single/Three Phase L-G Fixed Load:** This component is represented by a symbol labeled "P+Q".
- Single Phase L-L Fixed Load:** This component is represented by a symbol labeled "P+Q".
- 3 phase loads (Resistive, Inductive and Capacitive):** This section includes symbols for a 3-phase resistive load (1.0 [MW]), a 3-phase inductive load (1.0 [MVAR]), and a 3-phase capacitive load (1.0 [MVAR]).
- Transposition wires:** This component is represented by a symbol showing two crossed lines.
- Wires:** This component is represented by a simple horizontal line.
- Bus:** This component is represented by a horizontal line with a vertical line connecting it to the ground.
- 3 phase short:** This component is represented by a symbol showing three lines connected to a common point.
- Snark Gun:** This component is represented by a symbol showing a gun barrel.

A "PASSIVE ELEMENTS" panel is visible on the right side of the interface, containing a grid of symbols for various passive components, including resistors, inductors, capacitors, and a "More on Passive Elements" button.

At the bottom of the interface, there is a toolbar with icons for Schematic, Graphic, Parameters, Script, Fortran, and Data.

PSCAD: Biblioteca Master



Iniciando uma Simulação

teste

Configurações da Simulação

teste

teste

Exportando Dados

Criação de Componentes e Bibliotecas

Criação de Componentes: Usando Scripts

Automação de Simulações

Aplicação - Retificadores

Aplicação: Inversores

Aplicação: Sistemas de Controle

Aplicação - Máquinas Elétricas

Aplicação - Faltas

Conclusões

Obrigado pela Atenção!

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