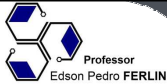
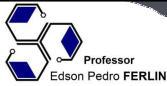
Professor  
Edson Pedro FERLIN

# Ferramentas de Simulação

*Prof. Edson Pedro Ferlin*

Professor  
Edson Pedro FERLIN

- **Objetivos**
  - Apresentar as ferramentas computacionais para simulação.
- **Conteúdos**
  - Tabela Verdade
  - Equação Lógica
  - Simulação de Circuitos



## Geração da Table Verdade

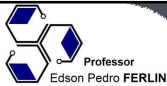
Truth Table Generator (online)  
[stanford.edu/class/cs103/tools/truth-table-tool/](http://stanford.edu/class/cs103/tools/truth-table-tool/)

**Truth Table Generator**

This tool generates truth tables for propositional logic formulas. You can enter logical operators in several different formats. For example, the propositional formula  $p \wedge q \rightarrow \neg r$  could be written as  $p \wedge q \rightarrow \neg r$ , as  $p$  and  $q \Rightarrow \text{not } r$ , or as  $p \& \& q \rightarrow \text{fr}$ . The connectives  $\neg$  and  $\perp$  can be entered as T and F.

( $\neg A$  and B) or C

A	B	C	$((\neg A \wedge B) \vee C)$
F	F	F	F
F	F	T	T
F	T	F	T
F	T	T	T
T	F	F	F
T	F	T	T
T	T	F	F
T	T	T	T



## Geração da Equação Lógica

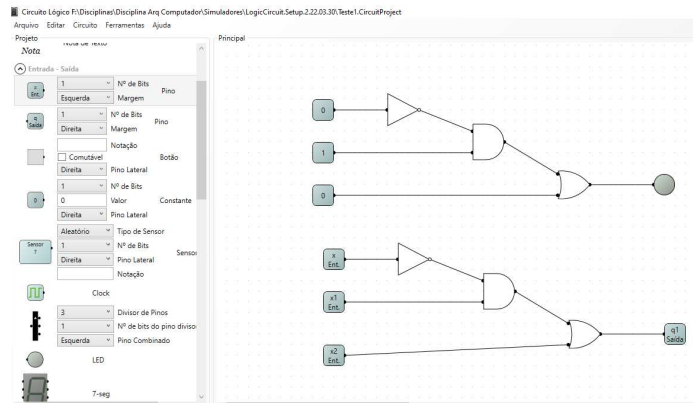
Truth Table Solver (Java)  
<https://sourceforge.net/projects/truthtablesolve/>

The screenshot shows the 'Truth Table Solver 1.2 Beta' application window. It features a table with columns for 'FUNCTION', 'A', 'B', and 'C'. The 'FUNCTION' column contains binary values (0 or 1) for each row. To the right, there are options for 'Terms Names' (A, B, C), 'Number of Terms' (set to 3), and solution methods: 'Sum Of Products', 'Product Of Sums', 'All possible solutions (Occasionally slow)', and 'One solution (fast)'. A 'SOLVE' button is visible at the bottom right. Below the application window, the resulting logical equation is displayed:  $(A \cdot C) + (B \cdot C)$ .

## Simulação Circuitos Lógicos e Tabela Verdade

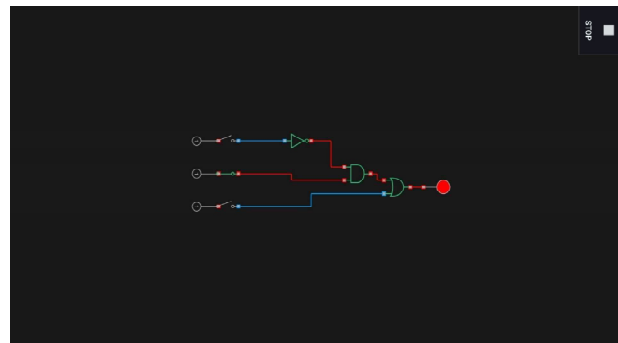
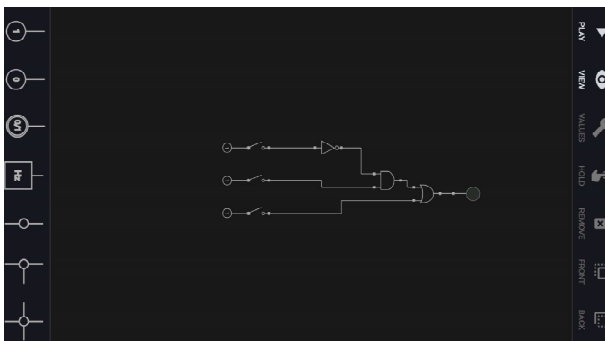
### Logic Circuit

[www.logiccircuit.org/download.html](http://www.logiccircuit.org/download.html)



## Simulação Circuitos Lógicos

### Easy Logic (Android)





## Contato



[eferlin@live.com](mailto:eferlin@live.com)



(BLOG) [professorferlin.blogspot.com](http://professorferlin.blogspot.com)

(SITE) [professorferlin.webnode.com.br](http://professorferlin.webnode.com.br)

(YOUTUBE) [ProfEdsonPedroFerlin](https://www.youtube.com/ProfEdsonPedroFerlin)