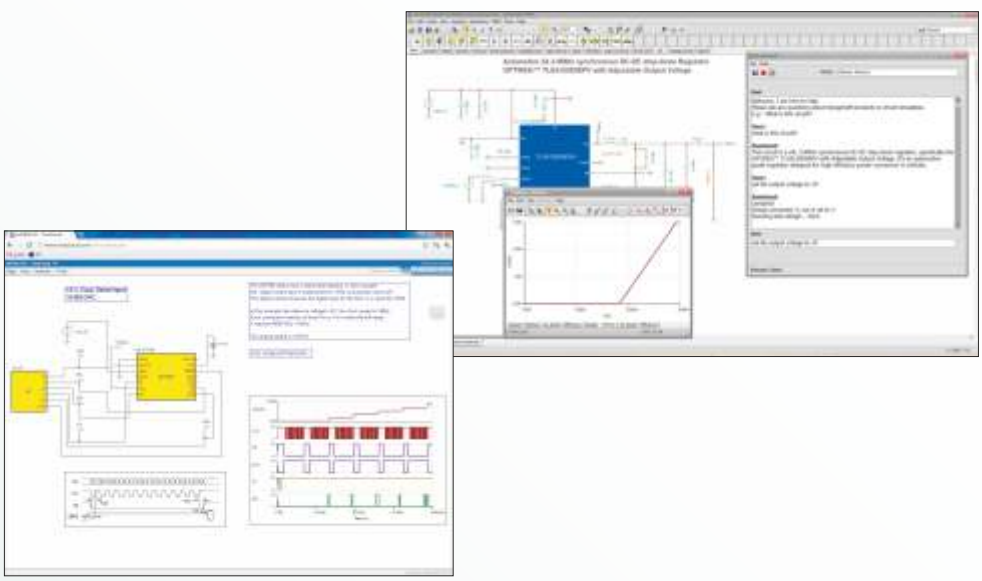
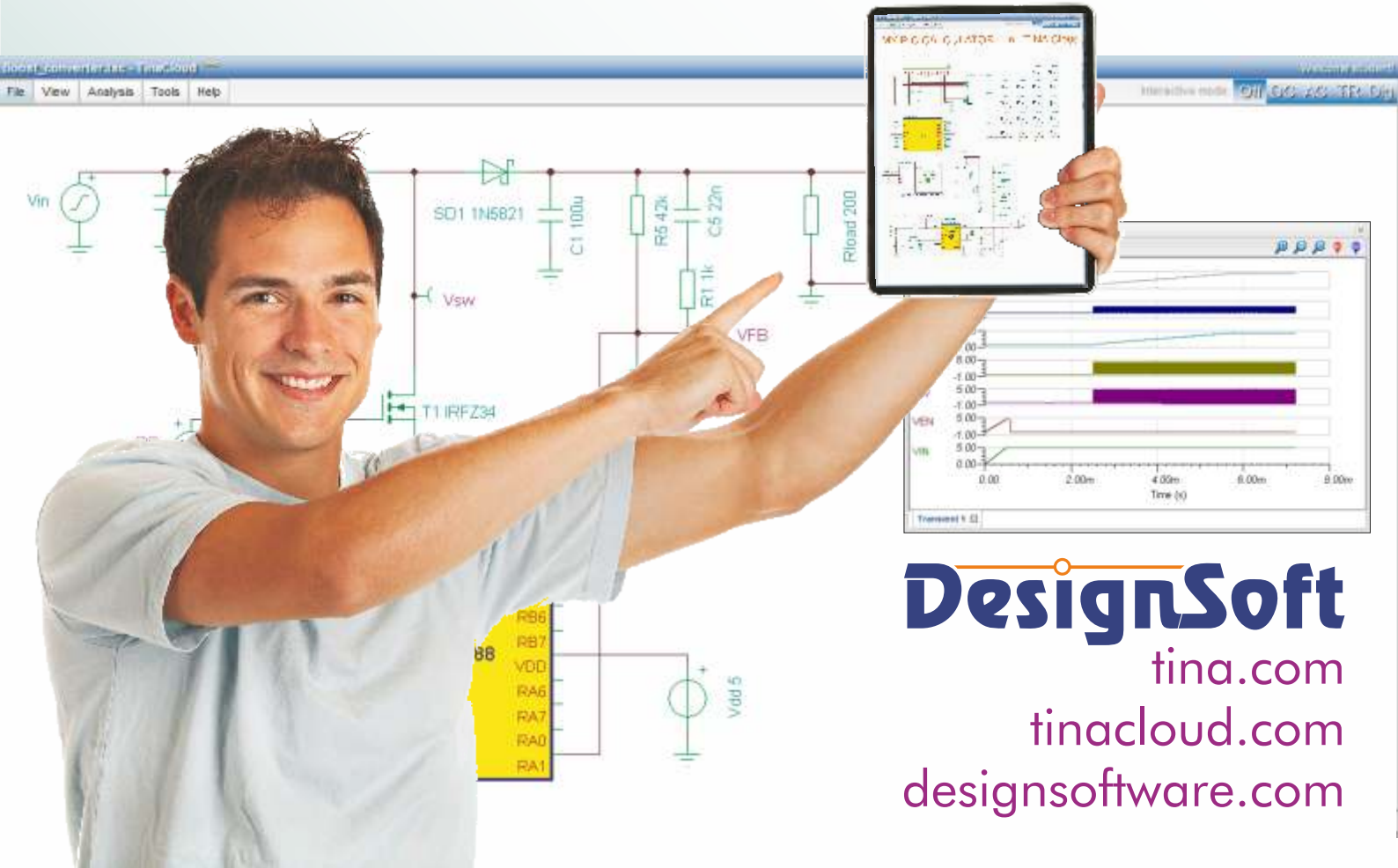
TINACLOUD

The Complete Electronics Lab on the Web



AI Tools in TINA

Web-Based Circuit Design & Analysis



DesignSoft

tina.com

tinacloud.com

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TINA

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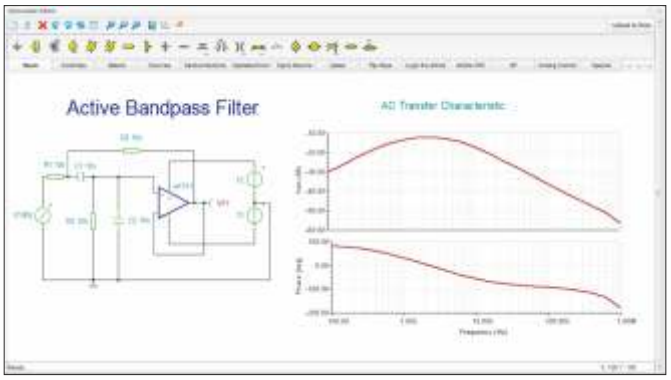
WEB-BASED CIRCUIT DESIGN & ANALYSIS

TINACLOUD is the cloud based version of the popular TINA circuit simulator and PCB design software running in your browser. With this powerful, industrial strength, yet affordable circuit simulation tool you can analyze & design analog, digital, VHDL, Verilog, MCU, and mixed electronic circuits including also SMPS, RF, communication, optoelectronic circuits and their PCB layouts. TINACloud runs on most OSs and computers, including PCs, Macs, thin clients, tablets--even smart phones, smart TVs and many e-book readers. You can use TINACloud in the classroom, at home, and, in fact, anywhere in the world that has internet access. Electrical engineers will find TINACloud an easy to use, high performance tool, while educators will welcome its unique features for the training environment and distance education. Now **AI tools** in TINACloud helps you create quizzes for any circuit. Just provide the circuit name for well-known ones, or add a title and description for less familiar circuits. AI analyzes your request and provides a detailed summary of your learning progress.
Also **AI tools** offer a flexible, user-friendly interface for various engineering tasks, including circuit design, selecting, redesigning & simulating evaluation circuits from various manufactures, MCU code generation etc..



Analyze your circuits using more than 20 different analysis modes, present your results in sophisticated diagrams and generate reports about your projects in pdf format. In the interactive mode of TINA Cloud you can test your circuits in “real life” situations using interactive controls (such as keypads and switches) and watching displays or other indicators while the analysis is in progress. TINACloud's optimization tool can tweak one or more unknown circuit parameters to achieve a predefined target response and it also includes a powerful Design Tool which works with design equations to ensure that the specified inputs result in the specified output response.

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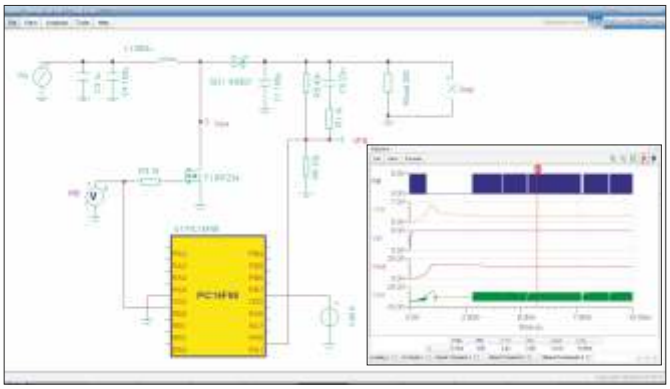

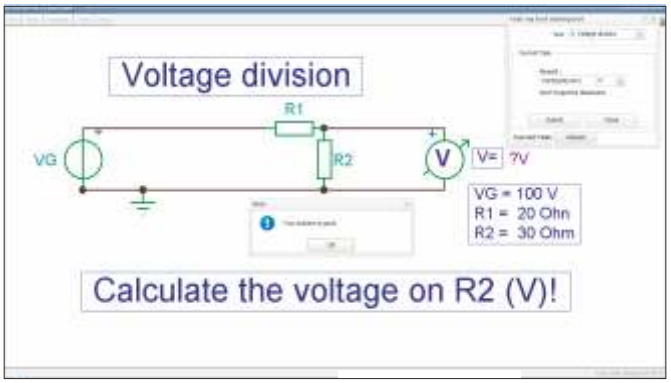

TINACloud has special operating modes for training and for examination. In these modes, under TINACloud's control, the students solve problems assigned by the teacher. The solution format depends on the types of problems: they can be selected from a list, calculated numerically, or given in symbolic form. If the student cannot solve the problem, he/she can turn to the multilevel Advisor. The package includes all the tools needed to produce educational materials. This feature is especially useful for distance education, for example students can solve problems at their home at a given time and the teacher can evaluate their solutions instantly using TINACloud's tools.

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