

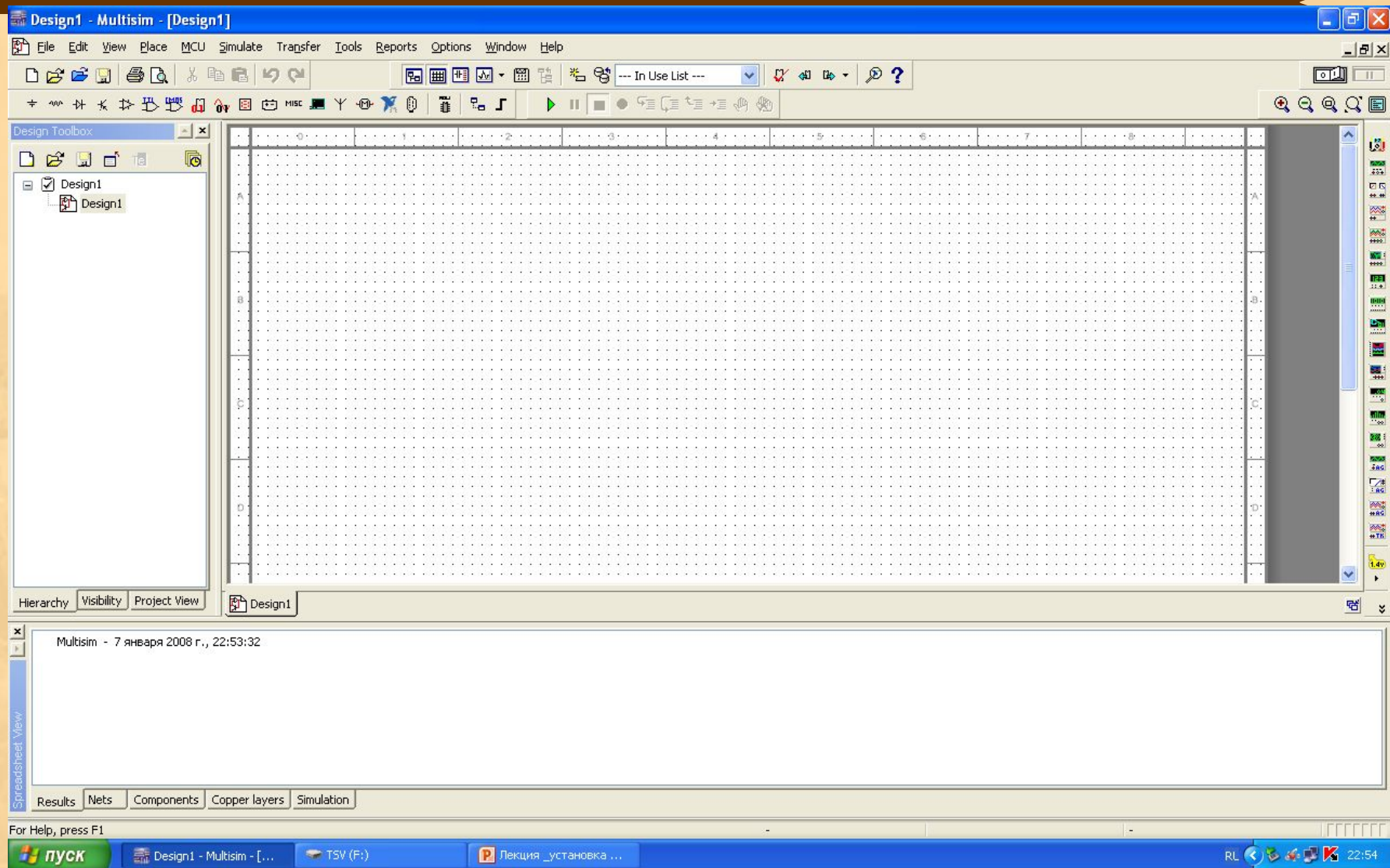


NI Multisim – National Instruments



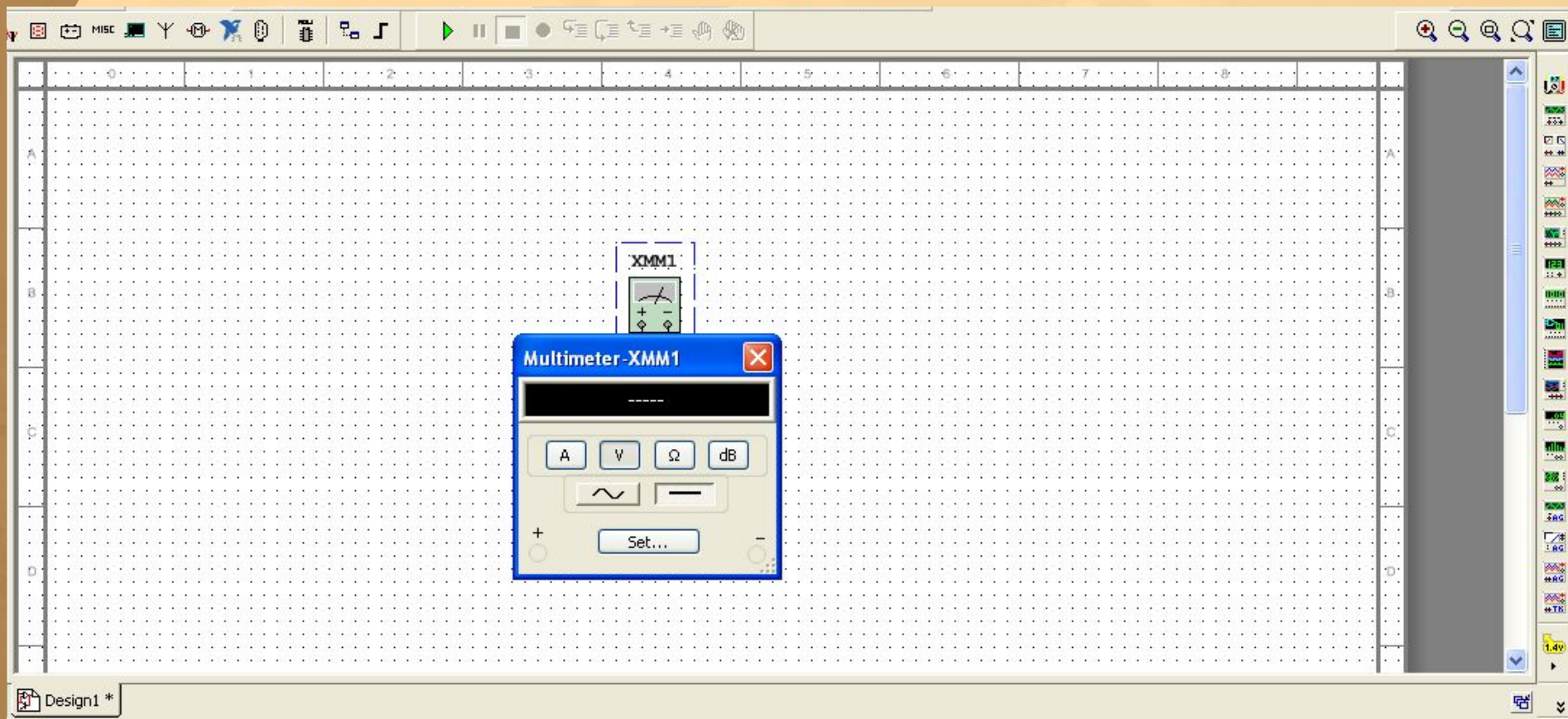


Интерфейс программы Multisim





Измерительные приборы Мультиметр





Генератор

The screenshot displays a circuit simulator workspace with a grid. A component labeled "XFG2" is placed on the grid. A configuration dialog box titled "Function generator-XFG2" is open, showing the following settings:

Waveforms: Three waveform icons are shown, with the square wave icon selected.

Signal options:

Frequency:	1	Hz
Duty cycle:	50	%
Amplitude:	10	Vp
Offset:	0	V

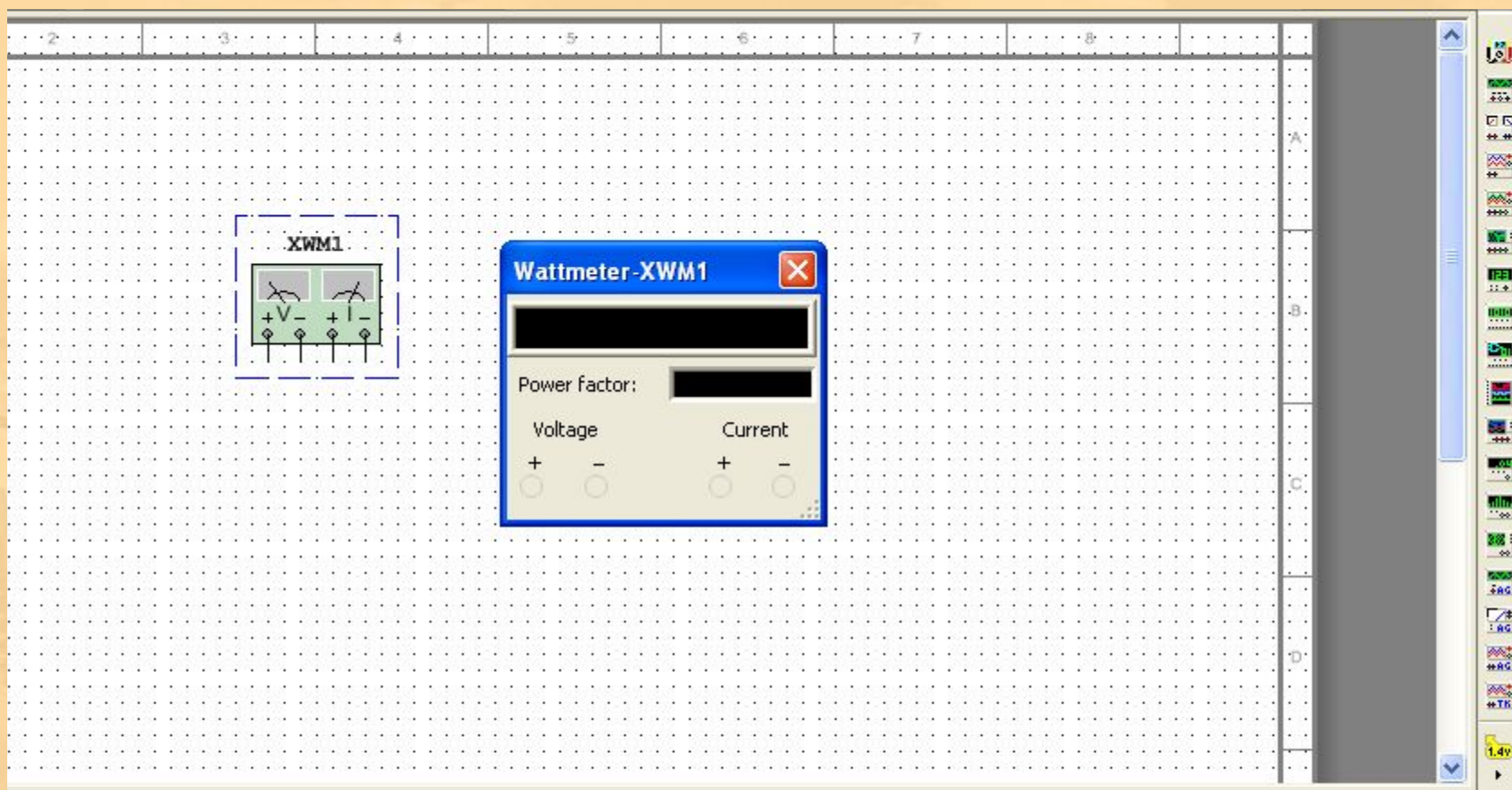
Below the table is a button labeled "Set rise/Fall time".

At the bottom of the dialog are three radio buttons: "+", "Common", and "-".

The simulator interface includes a top toolbar with various icons, a right-side toolbar with waveform icons, and a bottom status bar showing "Design1 *".

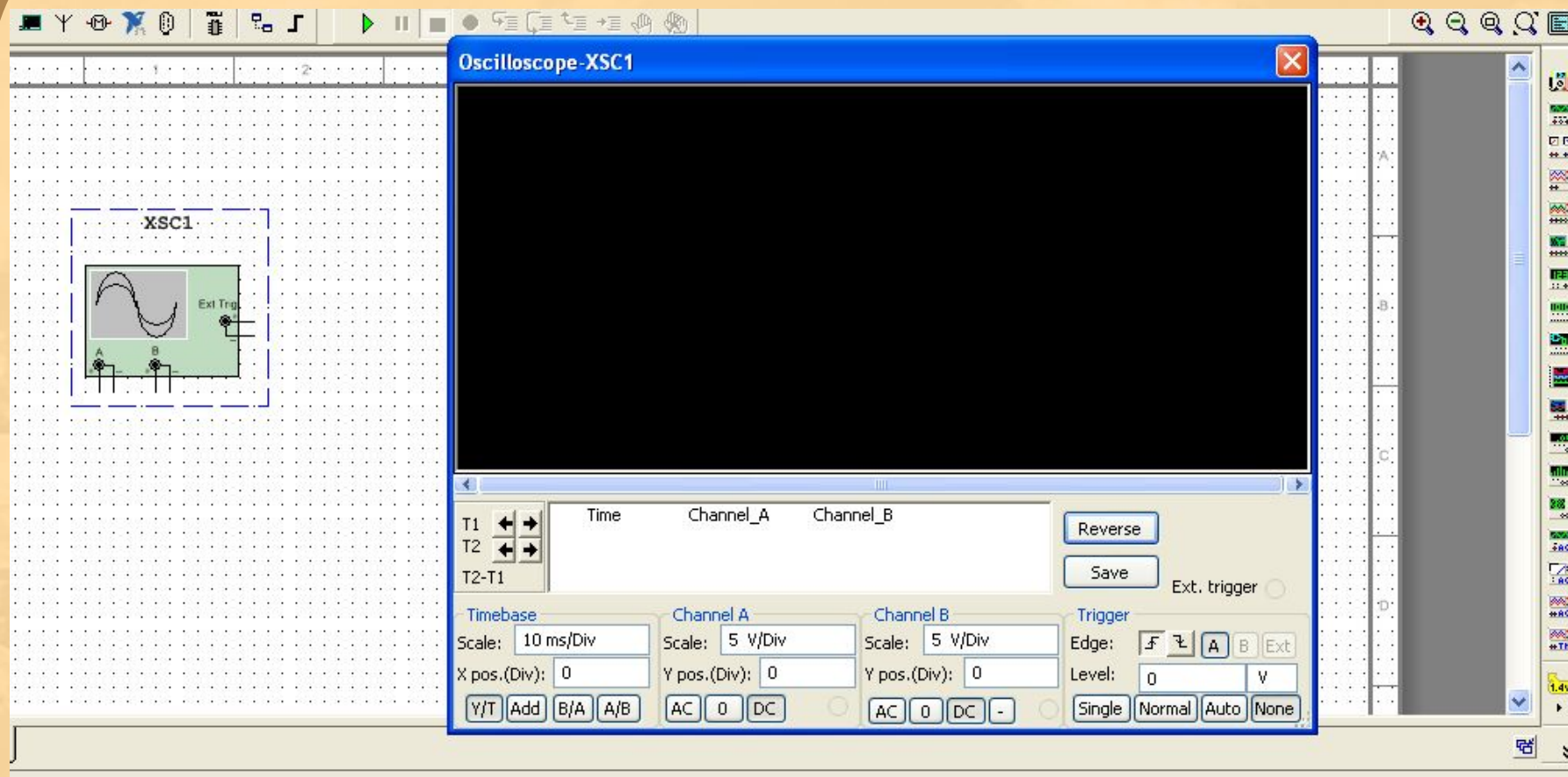


Ваттметр





Оциллограф





Пишущий осциллограф Графопостроитель

The image displays a software interface for a 'writing oscilloscope' and 'graph plotter'. The main window shows a breadboard with components XSC1 and XBP1. Two windows are open: 'Four channel oscilloscope-XSC1' and 'Bode Plotter-XBP1'. The oscilloscope window shows a sine wave on a grid. The Bode plotter window shows a blank plot area with controls for Mode (Magnitude/Phase), Horizontal/Vertical axes (Log/Lin), and Frequency/Amplitude scales. The bottom control panel includes Timebase (Scale: 10 ms/Div), Channel_A (Scale: 5 V/Div), and Trigger settings.

Four channel oscilloscope-XSC1

Timebase: Scale: 10 ms/Div, X pos.(Div): 0

Channel_A: Scale: 5 V/Div, Y pos.(Div): 0

Trigger: Edge: \uparrow , Level: 0 V

Bode Plotter-XBP1

Mode: Magnitude, Phase

Horizontal: Log, Lin; Vertical: Log, Lin

F: 1 GHz, I: 1 mHz

F: 0 dB, I: -200 dB

Controls: Reverse, Save, Set...



Базовые элементы

Select a Component

Database: Master Database
Group: Basic
Family: <All Families>

- BASIC_VIRTUAL
- RATED_VIRTUAL
- RPACK
- SWITCH
- TRANSFORMER
- NON_IDEAL_RLC
- RELAY
- SOCKETS
- SCHEMATIC_SYMBOLS
- RESISTOR
- CAPACITOR
- INDUCTOR
- CAP_ELECTROLIT
- VARIABLE_CAPACITOR
- VARIABLE_INDUCTOR
- POTENTIOMETER

Component: CURRENT_CONTROLLED_SPST

Symbol (ANSI)

Function:
Current controlled Single Pole Single Throw switch

Model manufacturer/ID:
National Instruments / CC_SPDT

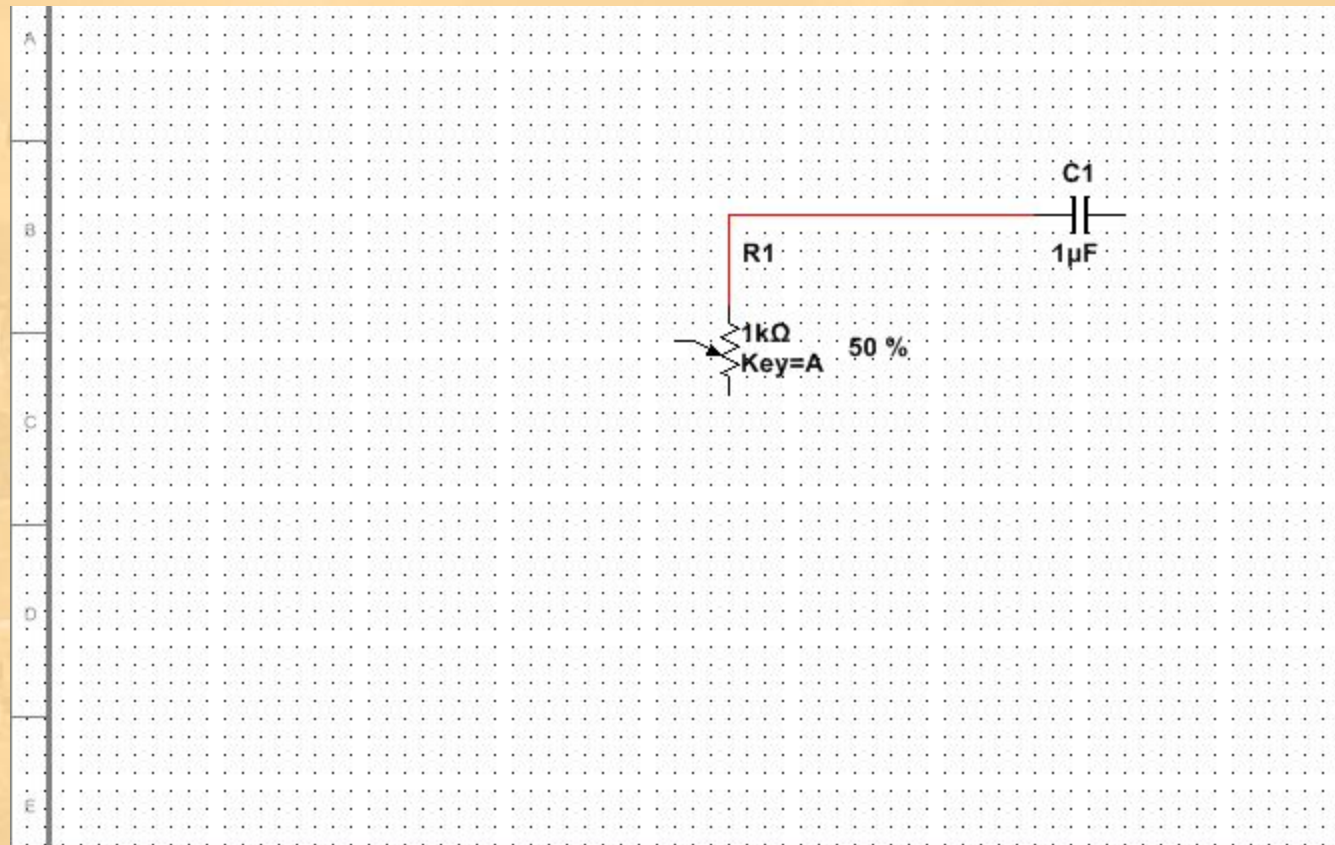
Footprint manufacturer/type:

Hyperlink:

Components: 30 Searching: Filter: off

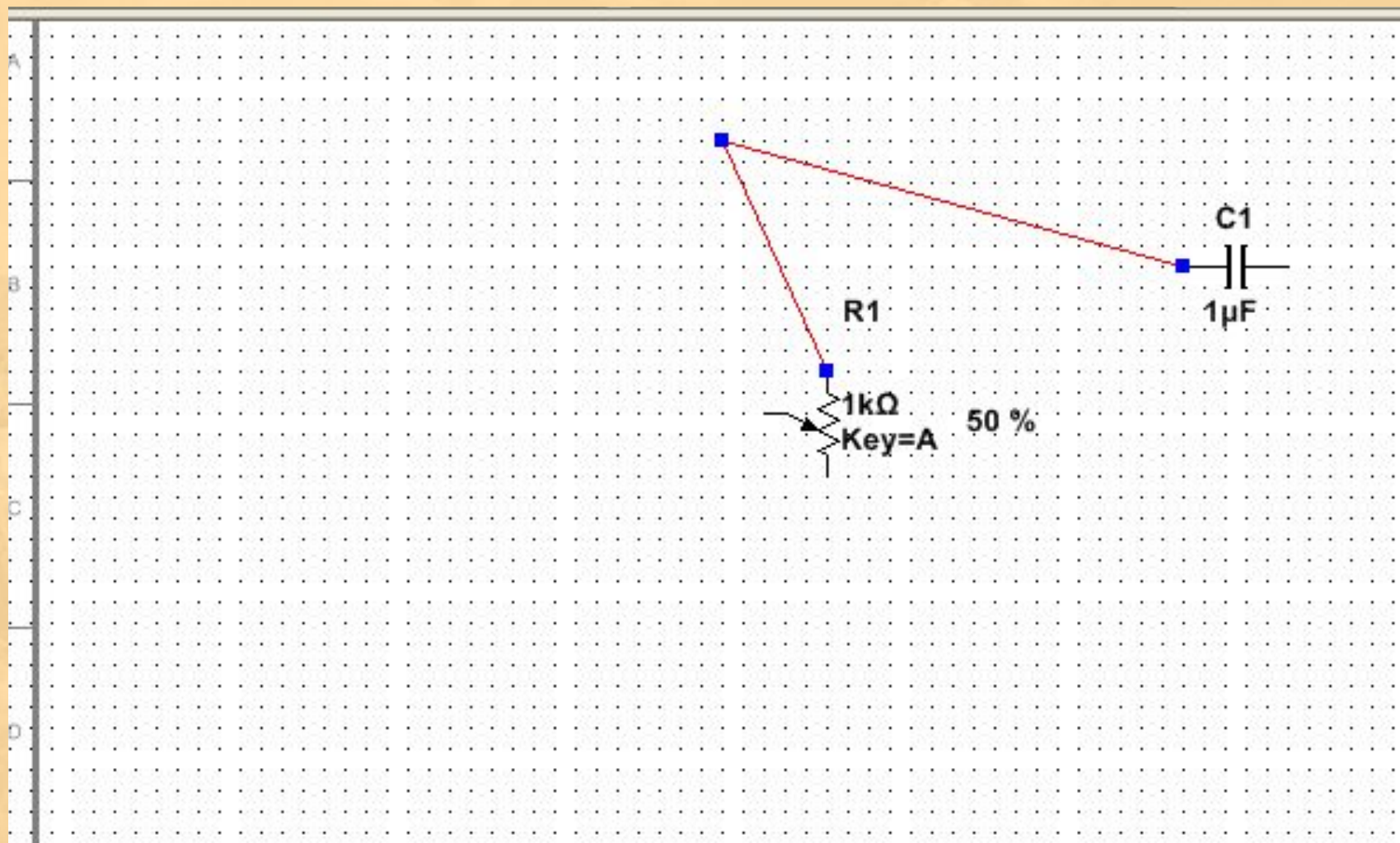


Сборка схем



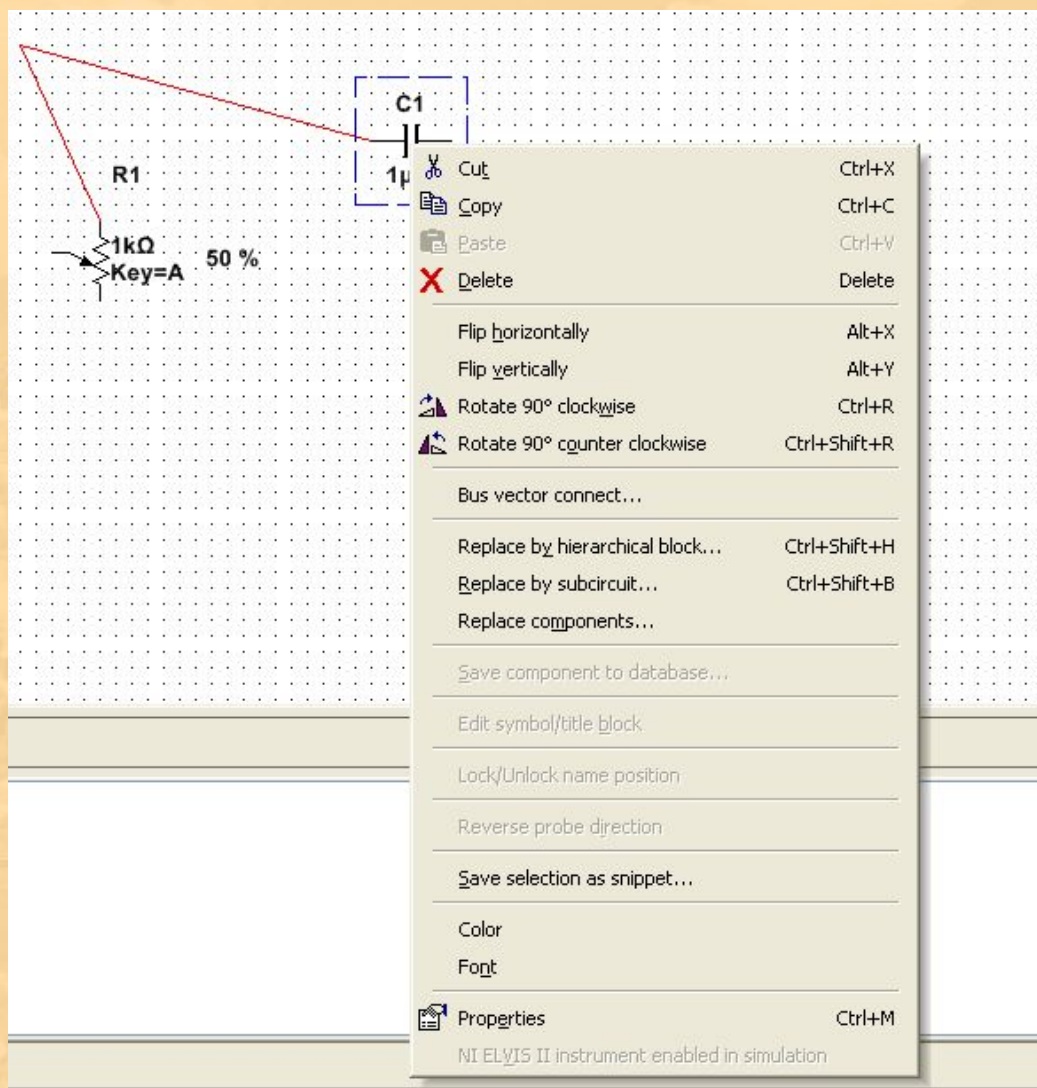


Редактирование схем и соединений





Редактирование элементов (расположение на принципиальной схеме).





Параметры элементов и их маркировка

The image shows a screenshot of a PCB design software interface. On the left, a circuit diagram is displayed on a grid. It features a resistor labeled 'R1' with a value of '1kΩ' and a tolerance of '50 %'. The resistor is marked with 'Key=A'. A capacitor labeled 'C1' with a value of '1μF' is shown to the right of the resistor. A red line connects the capacitor symbol in the diagram to the 'Capacitor' dialog box on the right.

The 'Capacitor' dialog box has the following settings:

- Label: (empty)
- Display: (empty)
- Value: 1u F
- Fault: (empty)
- Pins: (empty)
- Variant: (empty)
- User fields: (empty)
- Capacitance (C): 1u F
- Tolerance: 0 %
- Component type: (empty)
- Hyperlink: (empty)
- Additional SPICE simulation parameters:
 - Initial conditions: 0 V
- Layout settings:
 - Footprint: (empty) Edit footprint...
 - Manufacturer: (empty)

Buttons at the bottom of the dialog box: Replace, OK, Cancel, Help.



. Схема замещения емкостного делителя напряжения





Схема замещения смешанного делителя напряжения

