

Figure 16.9 Typical narrow-band interference filter-based spectral responsivity measurement system

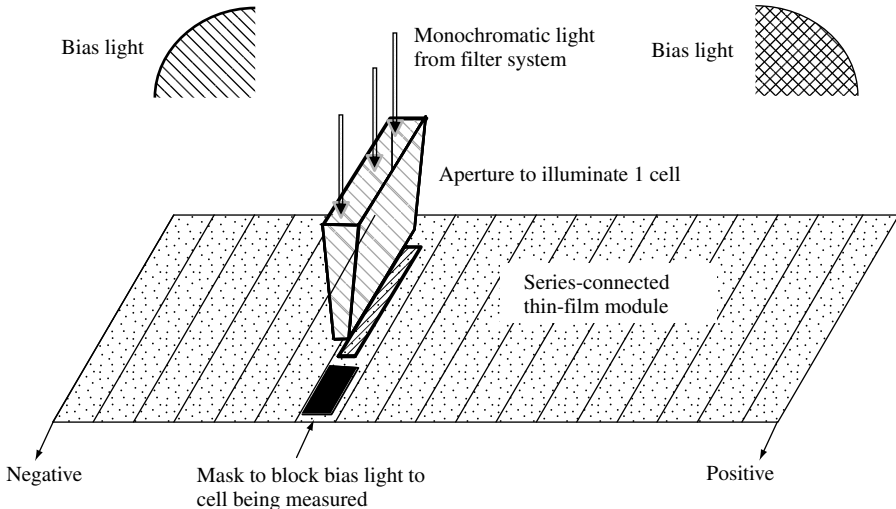


Figure 16.10 Apparatus for measuring the spectral responsivity of a single cell in a multicell module

The solution to the problem of measuring $S(\lambda)$ of a single cell in a module is the following sequence of steps [147]:

1. Bias the module with light to simulate “1 sun.”
2. Forward-bias the module to the measured module open-circuit voltage (V_{OC}) under the bias light in the previous step multiplied by $(n - 1)/n$, where n is the number of cells in series. Another procedure is to apply monochromatic light at a wavelength that the