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Abstract
The thesis mainly treats the method of using grating to extend the duration of light in the solar cell. The thesis indicates that grating is a diffractive element, when the diffraction elements diffracts light into the solar cell, and the diffractive grating can be reflected due to its diffractive feature.
We use helium cadmium laser, the wavelength is 325nm, and the power is 60mw. We use high polymer material to modelize grating through softly declines and the mold technology, and place the modelized grating into the glass level of the solar cell structure. Because of the result of the diffractive grating conforms to the characteristic of Bragg diffractive grating, therefore the light reflection will enhance the efficiency of the solar cell to absorb light.
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