

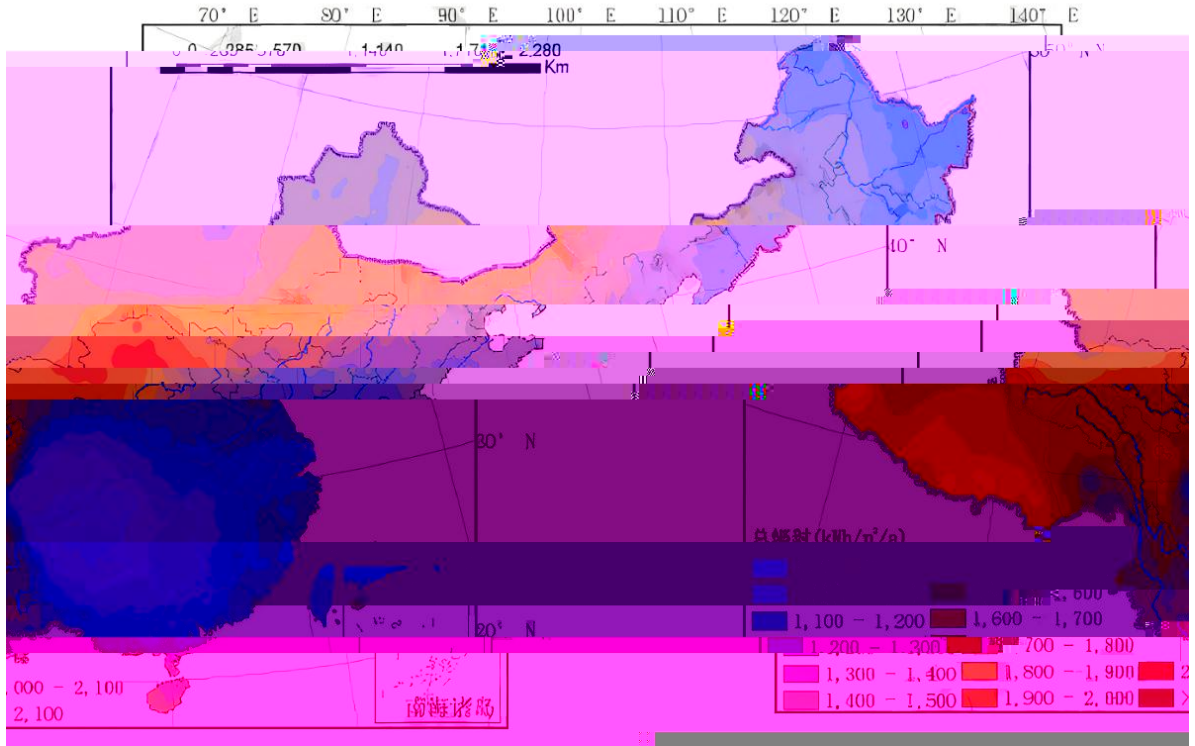
❖ 光生伏特效应（半导体在受到光照射时产生电动势的现象）

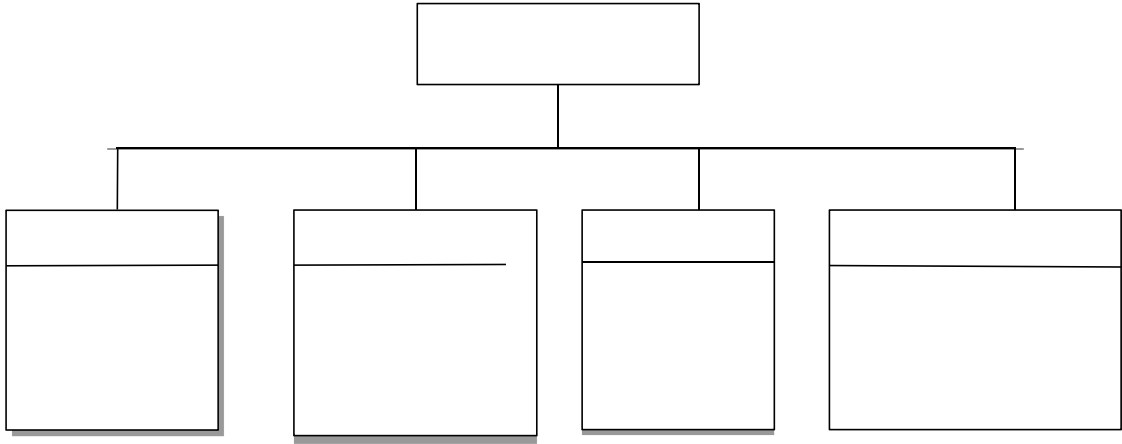
The diagram illustrates the photovoltaic effect in a p-n junction. The top part shows a cross-section of a p-n junction with arrows indicating the direction of light and the movement of electrons and holes. The bottom part shows a 3D illustration of a solar panel with a sun, a battery, and a light meter.

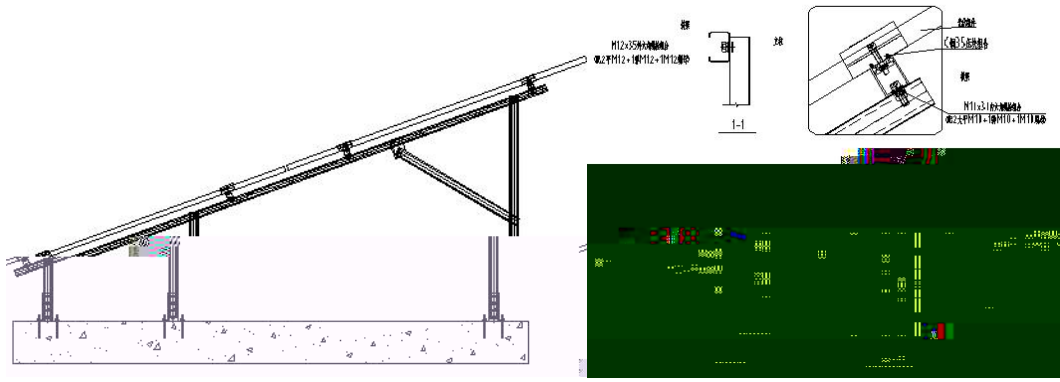
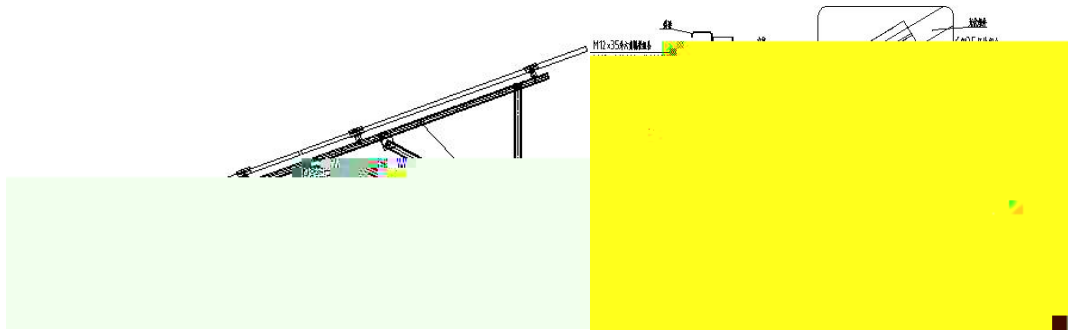
- 吸收光子，产生电子-空穴对
- 电子-空穴对在内建电场分离，在PN结两端产生电势
- 将PN结用导线连接，形成电流
- 在太阳能电池两端连接负载，实现了将光能向电能的转换



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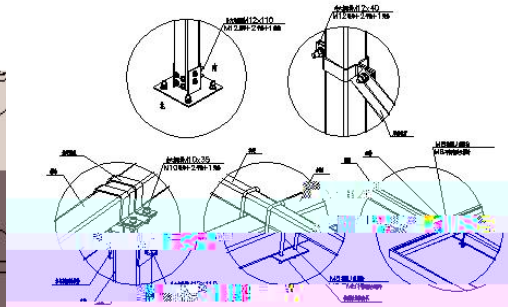
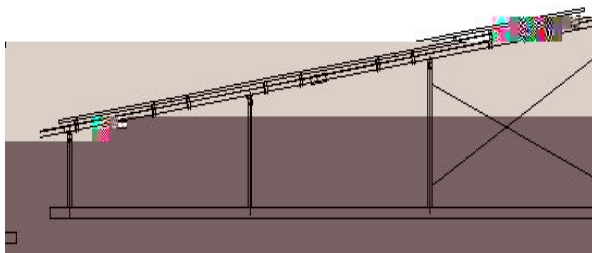
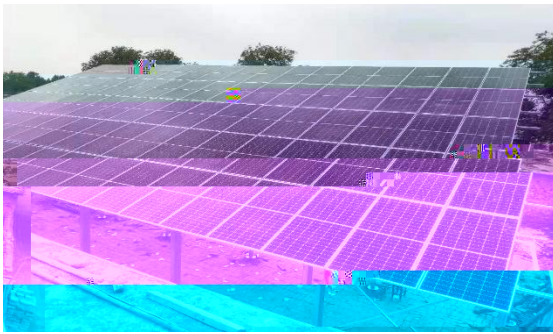
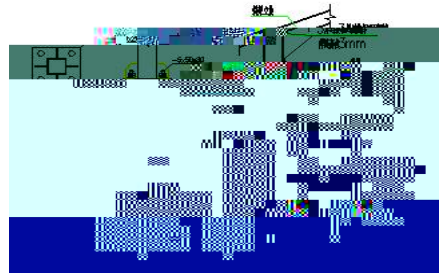


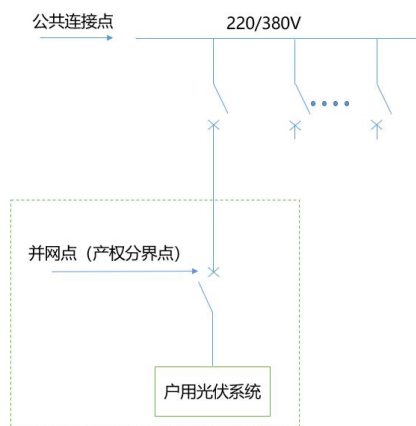
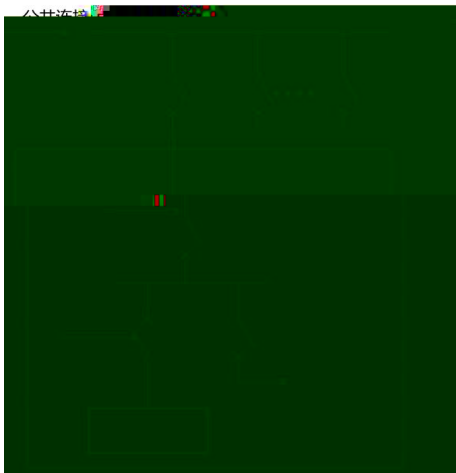






E~HgMypxK@



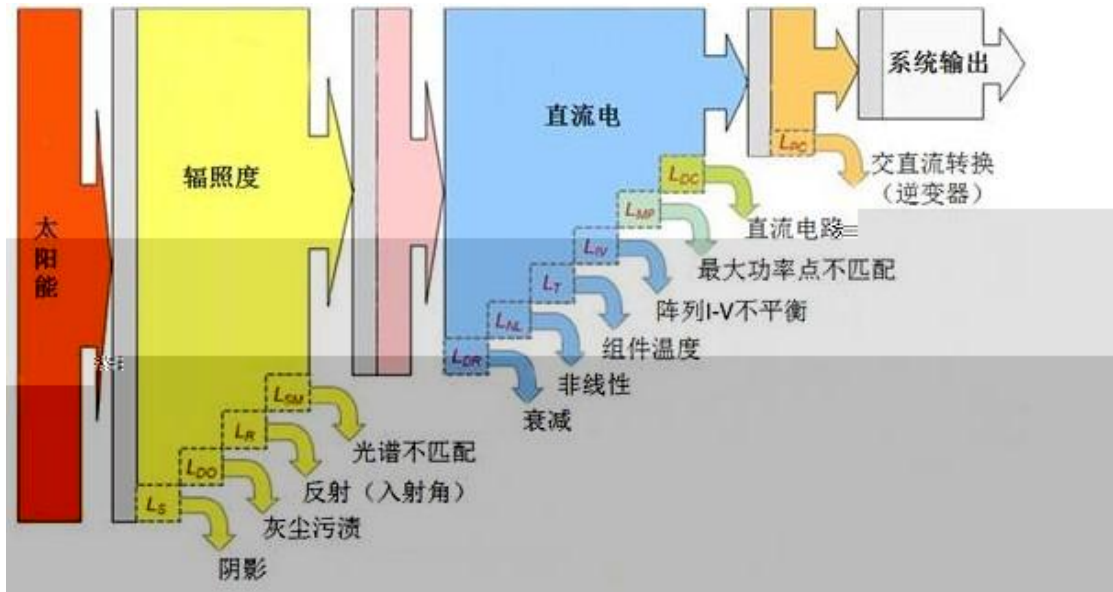




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