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https://www.100test.com/kao_ti2020/130/2021_2022__E8_8B_B1_E8_AF_AD_E4_B8_93_E5_c94_130622.htm Weve all used thermometers to measure temperature but sometimes we need to measure temperature in places you (1) ___ can t put a thermometer -- for example, inside a rocket engine. One of the best methods for those really hard-to-get-to place is based on laser spectroscopy. Light from a laser point- (2) ___ ing at the region of interest is absorbed by molecules and some (3) ___ of it are re-emitted back towards the source where it can be (4) ___ measured. The re-emitted light is shifted in frequency (changed in wavelength) by amounts that depend on the molecule and also the temperature and pressure of the surrounding gas be- (5) ___ cause of collisions among the molecules. The single, sharp frequency from the laser is thus smeared out into a whole spectrum of frequency whose shape can be used to determine (6) ___ the temperature provided so that the molecular transitions and (7) ___ line shapes are known. Because it is the main component of the air, it is convenient to use nitrogen since its molecular (8) ___ properties are known from room temperature to temperature of about 1,200 degree Celsius from experimental measurements. (9) Although this is a large range, it is far short of what it is needed (10) ___ for, some applications. 100Test 下载频道开通，各类考试题目直接下载。详细请访问 www.100test.com