國立中央大學97學年度碩士班考試入學試題卷

	听别:	遙測科技碩士學位學程碩士班	科目:遙測學	共 2 頁	第一百
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*請在試卷答案卷(卡)內作答

	`	解釋"	F	列名	詞	(40%)
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- 1. Remote sensing:
- 2. Nadir:
- 3. Blackbody:
- 4. Stefan-Boltzmann law:
- 5. Wien's displacement law:
- 6. Index of refraction:
- 7. Atmosphere windows:
- 8. Lambertian surface:
- 9. Radiance:
- 10. Thermal inertia:
- 11. Inverse-square law:
- 12. Tangential scale distortion:
- 13. Sensitometry:
- 14. Radargrammetric measurement:
- 15. Depression angle:
- 16. Speckle:
- 17. Doppler principle:
- 18. Digital surface models (DSM):
- 19. Digital terrain models (DTM):
- 20. Leaf-area-index (LAI):

參考用

注:背面有試題

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所別:遙測科技碩士學位學程碩士班 科目:遙測學 共 2 頁 第 2 頁

*請在試卷答案卷(卡)內作答

- = \((12%) Earth remote sensing system has four major resolutions associated with it. What are they and their definitions?
- = \((12\%)\)Speaking of scattering with regard to energy-matter interactions in the atmosphere, there are three types of scattering. What are they? What are their specific characteristics?
- 四、(10%) It is important to know about emissivity when conducting a thermal infrared remote sensing investigation. What are the important (dominant) factors?
- 五、(10%) What is the meaning of "geospatial"? Are there any differences in meaning of the terms "features", "objects", and "classes"?
- ☆ `(8%)According to the Stefan-Boltzmann and Wien's displacement laws, what are
 the total emitted radiation from the sun whose temperature is assumed to be
 6,000 K? What is the dominant wavelength? Also answer the questions if the
 Earth (300K) is considered.
- to (8%) Presume that two unknown surface features in an image or photo, which actually are a forest and a field crop with the plants close-spaced, are measured for their spectral values, and both display quite similar reflectances at three chosen wavelengths. How might these be separated and perhaps even identified? (Hint: think spatially.)

注:背面有試題