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No Due Date

20 points

2 Replies (2)



Understanding GPS

Select any *one* or more of the following prompts. I have provided the [Chapter 5](https://www.education.psu.edu/natureofgeoinfo/c5.html) (<https://www.education.psu.edu/natureofgeoinfo/c5.html>) section numbers where you can find answers to these questions.

1. Explain how radio signals broadcast by Global Positioning System satellites are used to calculate positions on the surface of the Earth (**Sections 13 - 17**)
2. Describe the functions of the space, control, and user segments of the Global Positioning System. (**Sections 13 - 17**)
3. State the kinds and magnitude of error and uncertainty associated with uncorrected GPS positioning (**Sections 18 - 20**)
4. Explain the concept of differential correction and other methods used to improve the accuracy of GPS positioning (**Sections 21 - 24**)

Discussion Guidelines:

- **Copy and paste your selected prompt(s) into your discussion reply.**
- **Provide a thorough answer to the best of your ability.**
- **Make a note or several notes about any part(s) of the question or the answer that you have a difficult time understanding, visualizing, or explaining.**

Then, read through posts from two or more of your classmates. Post replies on at least two of your classmates' posts by clicking the reply arrow at the end of their individual posts.

Reply guidelines:

1. Find areas where your classmates are struggling and you think you have a good grasp of the material. Help explain the parts that they are still working on **and/or**
2. Help your classmates learn to communicate this relatively complex information to their peer group. Find areas where your classmates' explanations are unclear and ask clarifying questions or

post additional resources (such as images, diagrams, videos, etc.) that you think may be helpful to better explain or illustrate the content.

Be sure to go back and let your classmates know where they were helpful. I will periodically award extra credit for continuing our discussions.

To ensure initial effort and learning, you must post before you can see your classmates' replies.

Reply
