VECTOR CALCULUS   Lesson 0414
Dr. Paul L. Bailey   Tuesday, April 14, 2020

Quote of the day
"All logical arguments can be defeated by the simple refusal to reason logically."
Physicist Steven Weinberg

Your assignment for today is as follows.

- Read solutions to homework H0413 in document `HVectx0413-Solutions.pdf`.

- Read Thomas Section 16.5, page 1182 to 1185, through Example 2 and up to Surface Integrals. Practice some of the problems 1 through 12. I will assign some of these tomorrow but get a head start (?).

- Find the correct answer to switch of the following is/are true:

    - The double integral of divergence in a region equals flux across the boundary.
    - The double integral of divergence in a region equals flow along the boundary.
    - The double integral of curl in a region equals flux across the boundary.
    - The double integral of curl in a region equals flow along the boundary.

    Then checkin at

    0414 Vector Calculus Checkin

Question 1. Can you invert a sphere without making an incision on the surface?

Answer. You may like this:

Outside In

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I will send out an invite for an optional class meeting at 11 AM on Wednesday. This is an opportunity for us to use a digital whiteboard to go over material.