Engineering Fundamentals An Introduction to Engineering 6th edition Moaveni Solutions Manual

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Chapter 1: Introduction to the Engineering Profession

1.20 Estimate the amount of copy or printing paper that you use every year. A 500-sheet ream of copy paper has an approximate mass of 5 pounds (2.27 kg). How much of this consumption is truly necessary, and how much of your own paper consumption could be avoided? State your assumptions.

SOLUTION

For example, on average, I use 15 pages per day; then on a yearly basis, I use 5475 pages (15 x 365).

$$\left(\frac{5475 \text{ pages}}{\text{year}}\right)\left(\frac{5 \text{ pounds}}{500 \text{ pages}}\right) = 54.75 \ \frac{\text{pounds of paper}}{\text{year}}$$

- Print only when necessary; convert online articles, emails; online receipts, etc. to PDF and save them electronically. Submit reports electronically when appropriate.
- Print on both sides of the paper.

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