ECE 1270
S 09

**HOMEWORK #1 solution**

THE
UNIVERSITY
OF UTAH

---

**Ex:** Complete the following table showing products of prefixes for engineering units:

| · | M | k |  | m | μ | n |
|---|---|---|---|---|---|---|
| M | T |   |   | k |   |   |
| k |   |   |   |   |   |   |
|   |   |   |   |   | μ | n |
| m |   | m |   |   |   |   |
| μ |   |   |   |   |   | f |
| n | m |   |   | p |   |   |

Note: $T = 10^{12}$, $G = 10^9$, $M = 10^6$, $k = 10^3$, blank $= 10^0$,
$m = 10^{-3}$, $\mu = 10^{-6}$, $n = 10^{-9}$, $p = 10^{-12}$, $f = 10^{-15}$, $a = 10^{-18}$

**SOL'N:**

| · | M | k |  | m | μ | n |
|---|---|---|---|---|---|---|
| M | T | G | M | k |   | m |
| k | G | M | k |   | m | μ |
|   | M | k |   | m | μ | n |
| m | k |   | m | μ | n | p |
| μ |   | m | μ | n | p | f |
| n | m | μ | n | p | f | a |