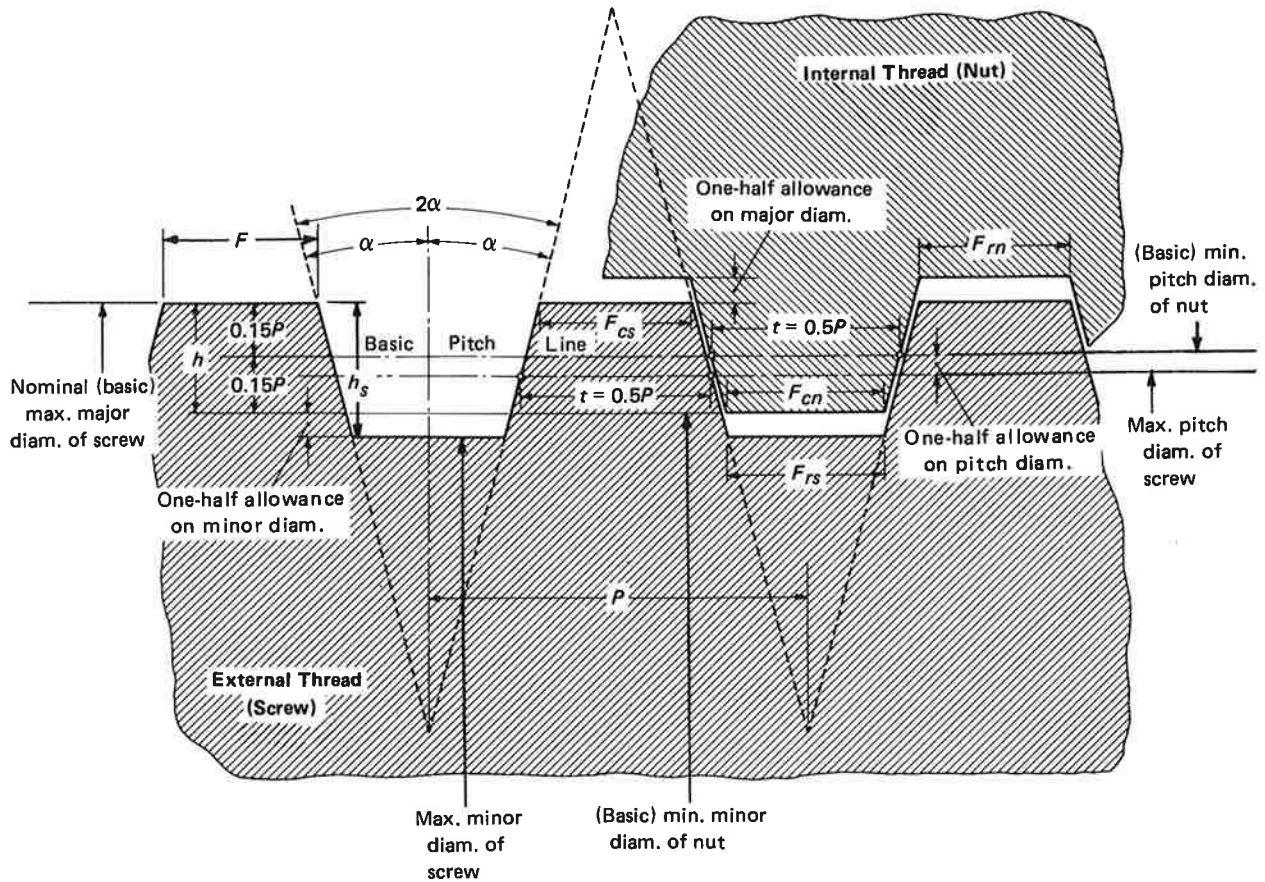


- F_{cn} = basic width of flat of crest of internal thread
 $= 0.3707P$
- F_{cs} = width of flat of crest of external thread
 $= 0.3707P - 0.259 \times \text{pitch diameter allowance on external thread}$
- F_{rn} = $0.3707P - 0.259 \times (\text{major diameter allowance on internal thread})$
- F_{rs} = $0.3707P - 0.259 \times (\text{minor diameter allowance on external thread} - \text{pitch diameter allowance on external thread})$
- P = pitch
- h = basic height of thread
 $= P/2$
- n = number of threads/in.
- α = 14 deg 30 min
- 2α = 29 deg

FIG. 2 DESIGN PROFILE FOR EXTERNAL AND INTERNAL GENERAL PURPOSE ACME THREAD



- $2\alpha = 29 \text{ deg.}$
- $\alpha = 14 \text{ deg. } 30 \text{ min}$
- $P = \text{pitch}$
- $n = \text{number of threads/in.}$
- $N = \text{number of turns/in.}$
- $h = 0.3P, \text{ basic thread height}$
- $F_{cn} = 0.4224P, \text{ basic width of flat of crest of internal thread}$
- $F_{cs} = 0.4224P - 0.259 \times (\text{pitch diameter allowance on external thread})$
- $F_{rn} = 0.4224P - 0.259 \times (\text{major diameter allowance of internal thread})$
- $F_{rs} = 0.4224P - 0.259 \times (\text{minor diameter allowance on external thread} - \text{pitch diameter allowance on external thread})$

FIG. 1 STUB ACME FORM OF THREAD