

# SHARP PC-1404G 測量計算プログラム

マニング 流量計算

DEF A

クッター 流量計算

DEF S

2006/8/17

## マニング・クッター流量計算

入力

|    |                |      |
|----|----------------|------|
| WA | m <sup>2</sup> | 流水面積 |
| WP | m              | 流水辺長 |
| I  | ° / 。          | 勾配   |
| N  |                | 粗度係数 |

出力

|   |                |      |
|---|----------------|------|
| R | m              | 動水半径 |
| V | m/s            | 流速   |
| Q | m <sup>3</sup> | 流量   |

```

10:"A":REM MANNING
20:WAIT
30:PRINT "MANNING"
40:INPUT "WA=";WA
50:INPUT "WP=";WP
60:INPUT "I =" ;I
70:INPUT "N =" ;N
80:R=MDF (WA/WP)
90:V=MDF (1/N*R^(2/3))*
    I/1000)^(1/2))
100:Q=MDF (WA*V)
110:USING "#####.####"
120:PRINT "R =" ;MDF R
130:PRINT "V =" ;MDF V
140:PRINT "Q =" ;MDF Q
150:GOTO 30

1010:"S":REM KUTTERG
1020:WAIT
1030:PRINT "KUTTER"
1040:INPUT "WA=";WA
1050:INPUT "WP=";WP
1060:INPUT "I =" ;I
1070:INPUT "N =" ;N
1080:R=MDF (WA/WP)
1090:V=MDF ((23+1/N+0.0
    0155/(I/1000))/(1+
    (23+0.00155/(I/100
    0))*N/√R))*√(R*(I/1
    000)))
1100:Q=MDF (WA*V)
1110:USING "#####.####"
1120:PRINT "R =" ;MDF R
1130:PRINT "V =" ;MDF V
1140:PRINT "Q =" ;MDF Q
1150:GOTO 1030
    
```