# APPENDIX F

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

Appendix F contains Graph Nos. 99 to 128 detailed as under.

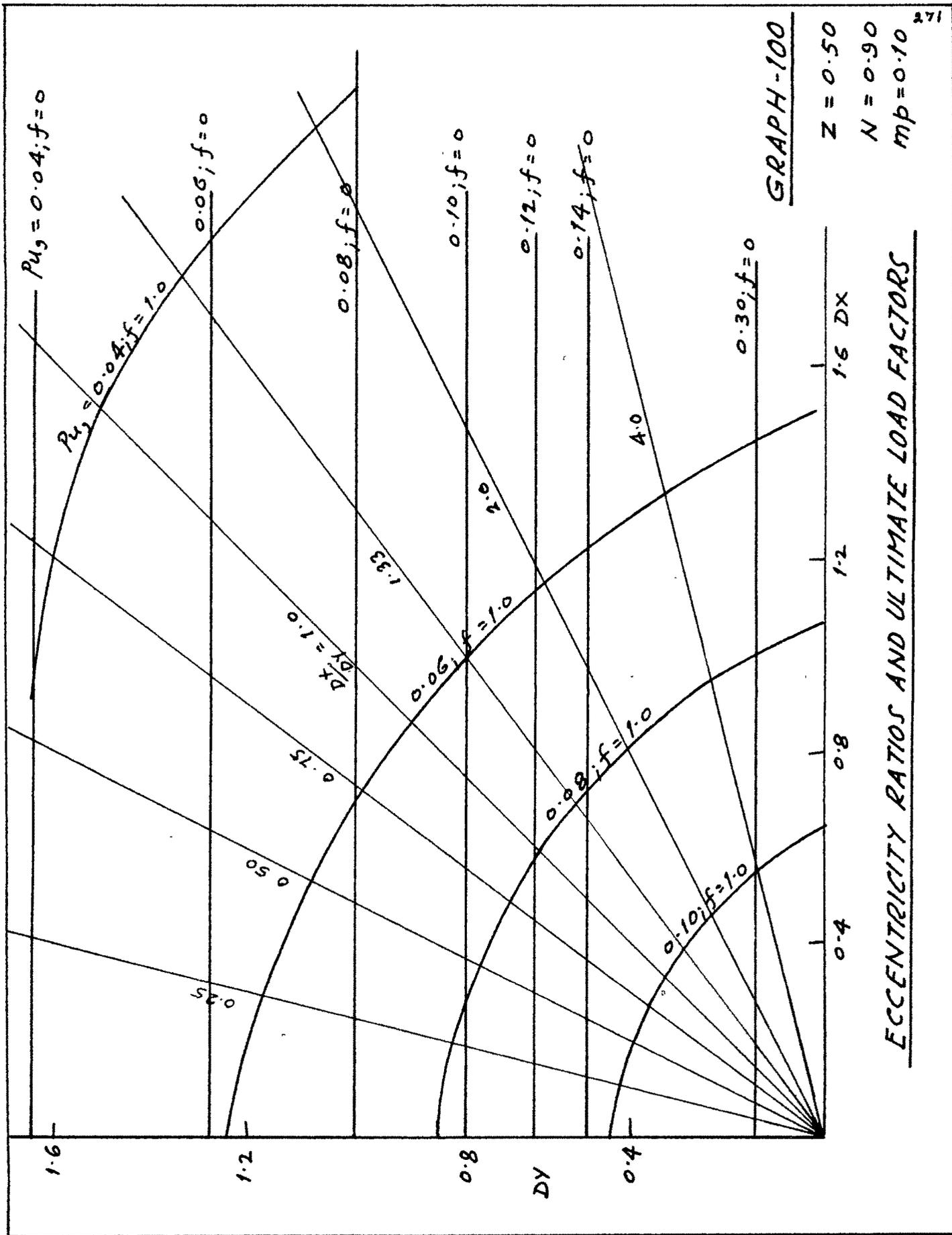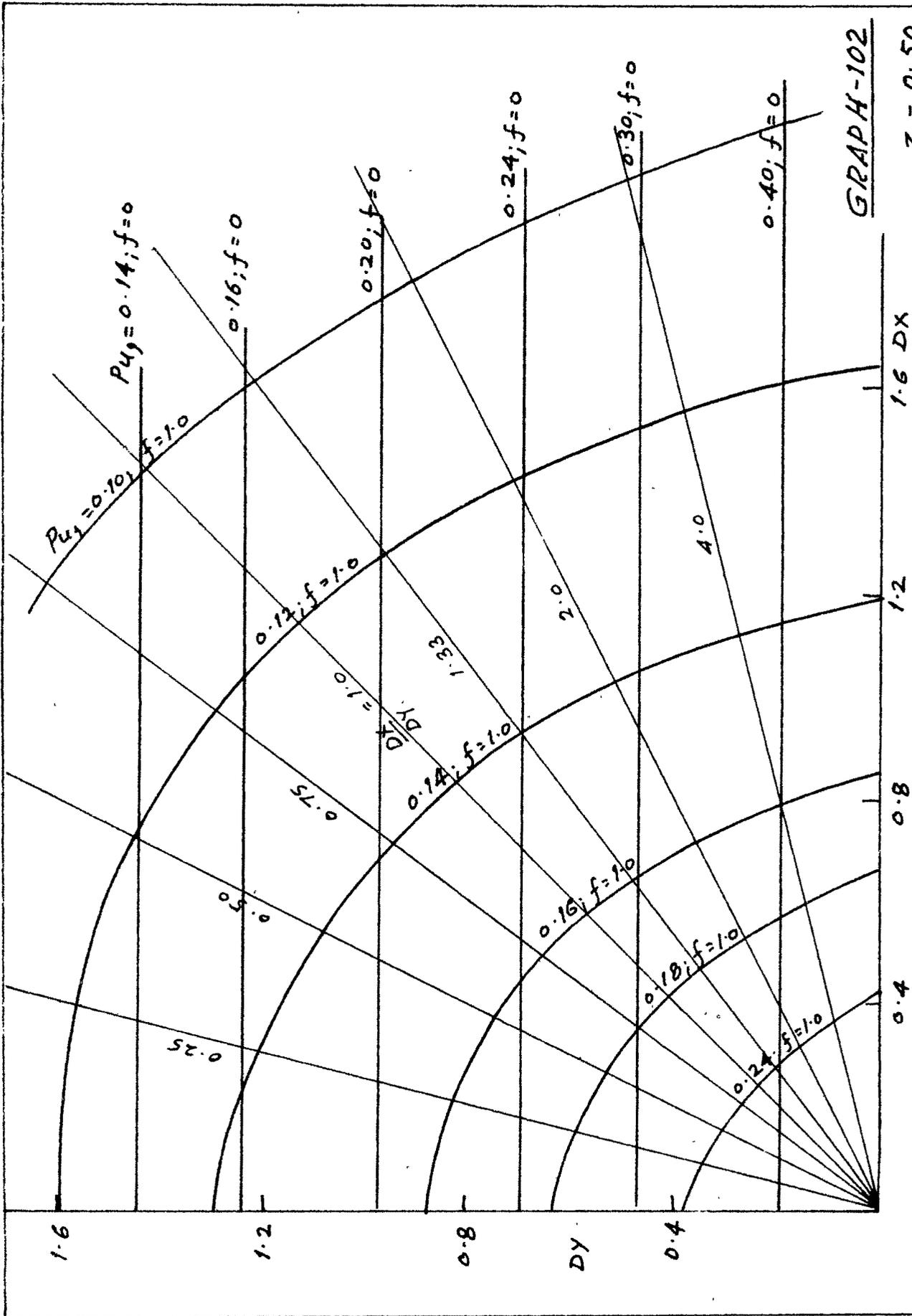| Graph No.	Parameters	Page
99 to 103	Z = 0.50, N = 0.9, mp = 0.05, 0.10 0.20 0.30 0.40	270 to 274
104 to 108	Z = 0.50, N = 1.0, mp = 0.05 0.10 0.20 0.30 0.40	275 to 279
109 to 113	Z = 0.50, N = 1.1, mp = 0.05 0.10 0.20 0.30 0.40	280 to 284
114 to 118	Z = 1.00, N = 0.9, mp = 0.05 0.10 0.20 0.30 0.40	285 to 289
119 to 123	Z = 1.00, N = 1.0, mp = 0.05 0.10 0.20 0.30 0.40	290 to 294
124 to 128	Z = 1.00, N = 1.1 mp = 0.05 0.10 0.20 0.30 0.40	295 to 299
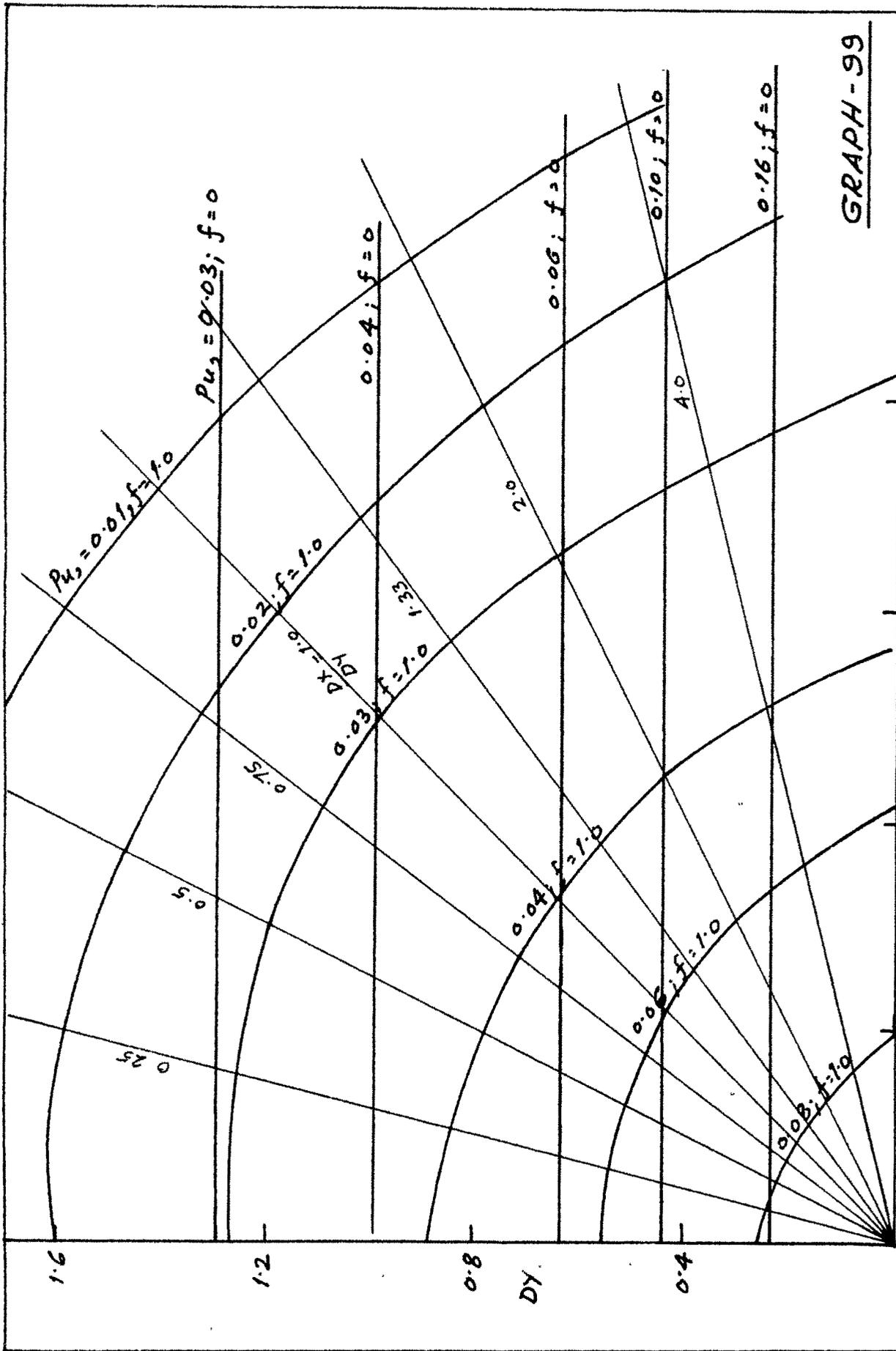
GRAPH - 99

$z = 0.58$
$N = 0.90$
$mp = 0.05$

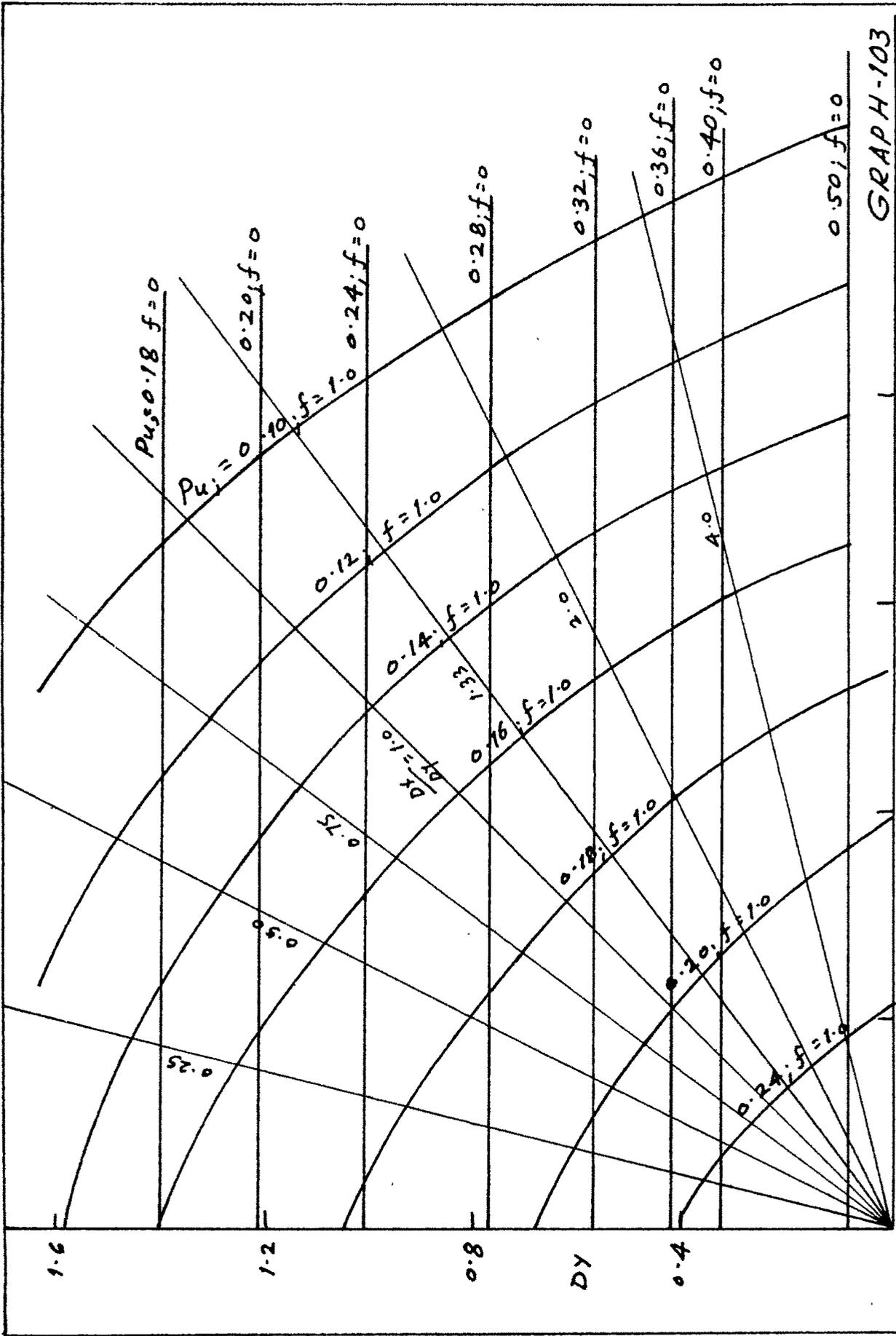ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

$Pu_3 = 0.03; f = 0$

$Pu_3 = 0.01; f = 1.0$

$0.04; f = 0$

$0.06; f = 0$

$0.10; f = 0$

$0.16; f = 0$

$0.02; f = 1.0$

$DX - f = 0$

$0.03; f = 1.0$

$0.04; f = 1.0$

$0.06; f = 1.0$

$0.08; f = 1.0$

DY

DX

1.33

2.0

4.0

0.25

0.5

0.75

0.25

1.6

1.2

0.8

0.4

0.4   0.8   1.2   1.6 DX

270

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

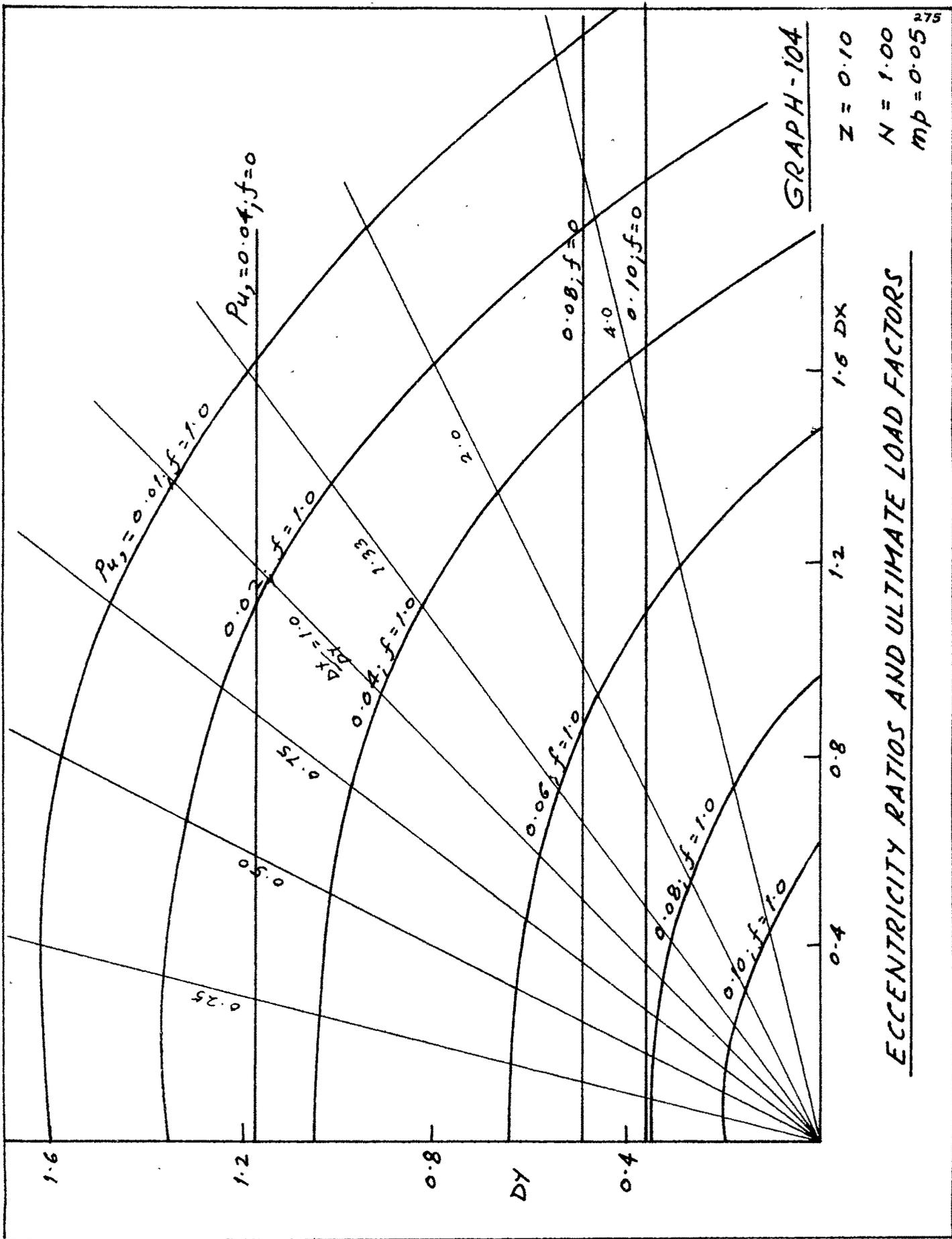GRAPH-100
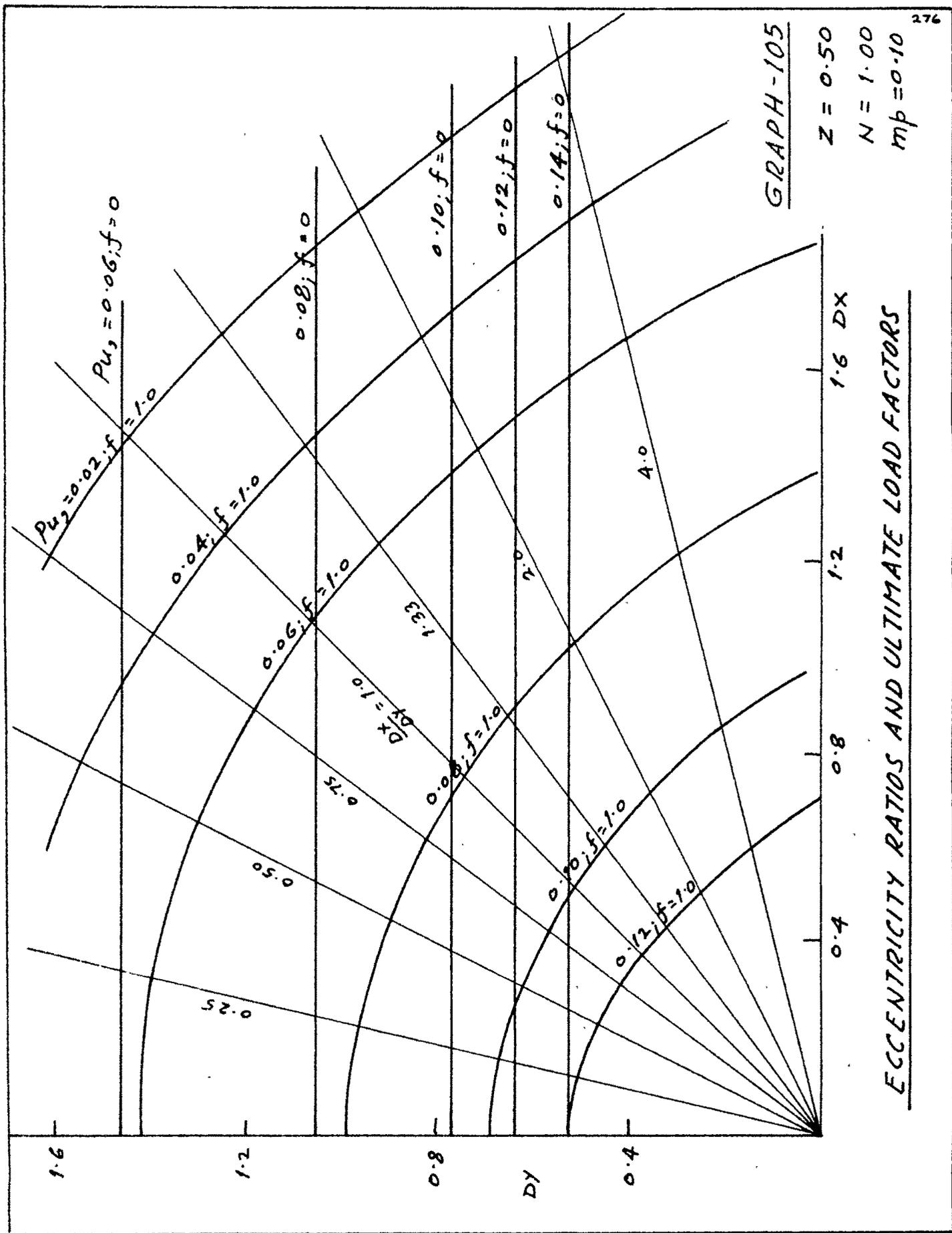
Z = 0.50
N = 0.90
mp = 0.10

271

GRAPH-101

$Z = 0.50$
$N = 0.90$
$mp = 0.20$

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS.

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GRAPH-102

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

$z = 0.50$
$N = 0.90$
$mp = 0.30$

The graph contains the following labels:

$Pu_y = 0.14; f = 0$
$0.16; f = 0$
$0.20; f = 0$
$0.24; f = 0$
$0.30; f = 0$
$0.40; f = 0$
$Pu_y = 0.10; f = 1.0$
$0.12; f = 1.0$
$0.14; f = 1.0$
$0.16; f = 1.0$
$0.18; f = 1.0$
$0.24; f = 1.0$

DX
DY
$DY/DX = 1.0$

4.0
2.0
1.33
1.0
0.75
0.5
0.25

DX axis: 0.4 0.8 1.2 1.6
DY axis: 0.4 0.8 1.2 1.6

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS
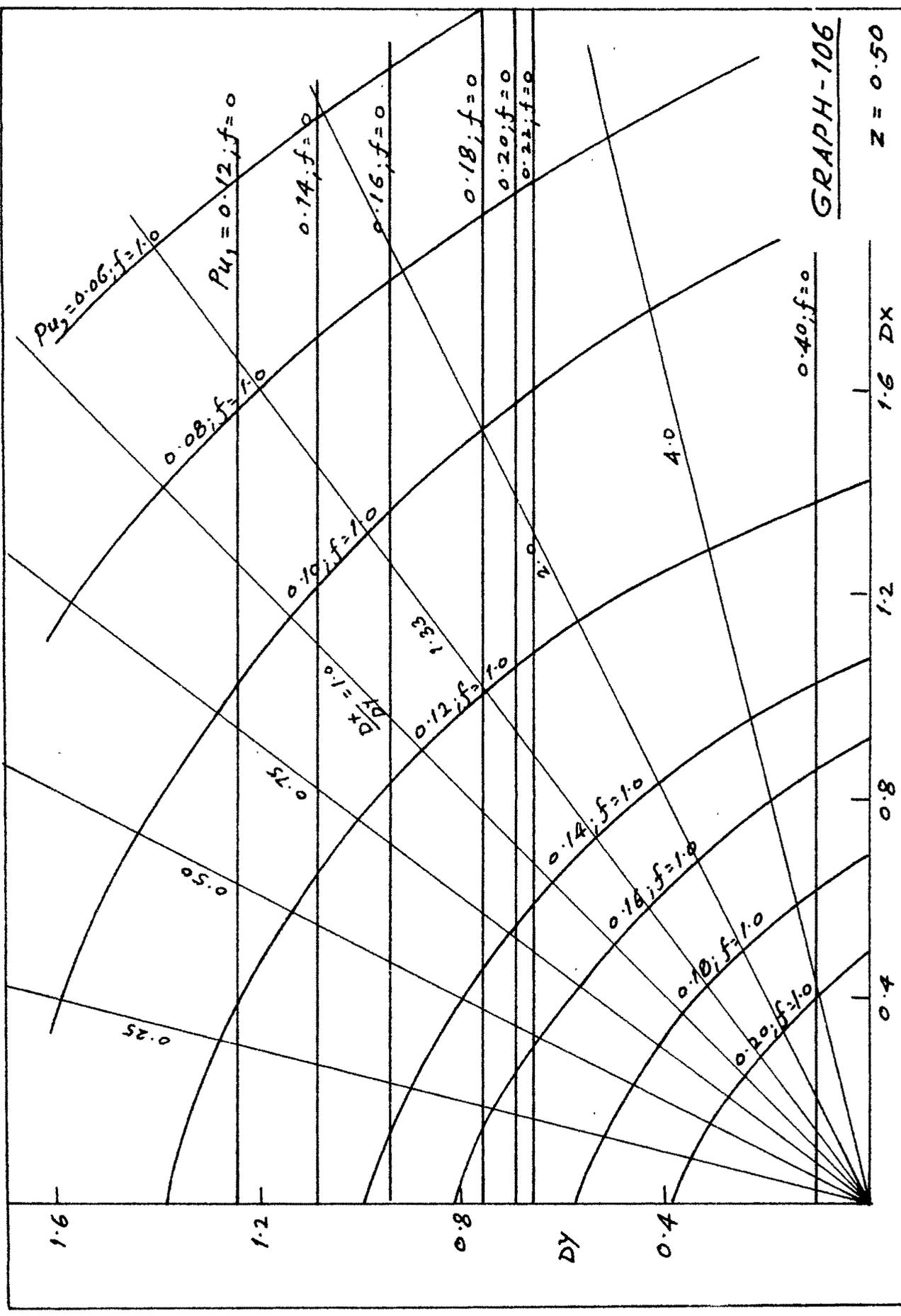
GRAPH-103

$z = 0.50$
$N = 0.90$
$mp = 0.40$

274

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

GRAPH-104

$z = 0.10$

$N = 1.00$

$mp = 0.05$

275

GRAPH-105

z = 0.50
N = 1.00
mp = 0.10

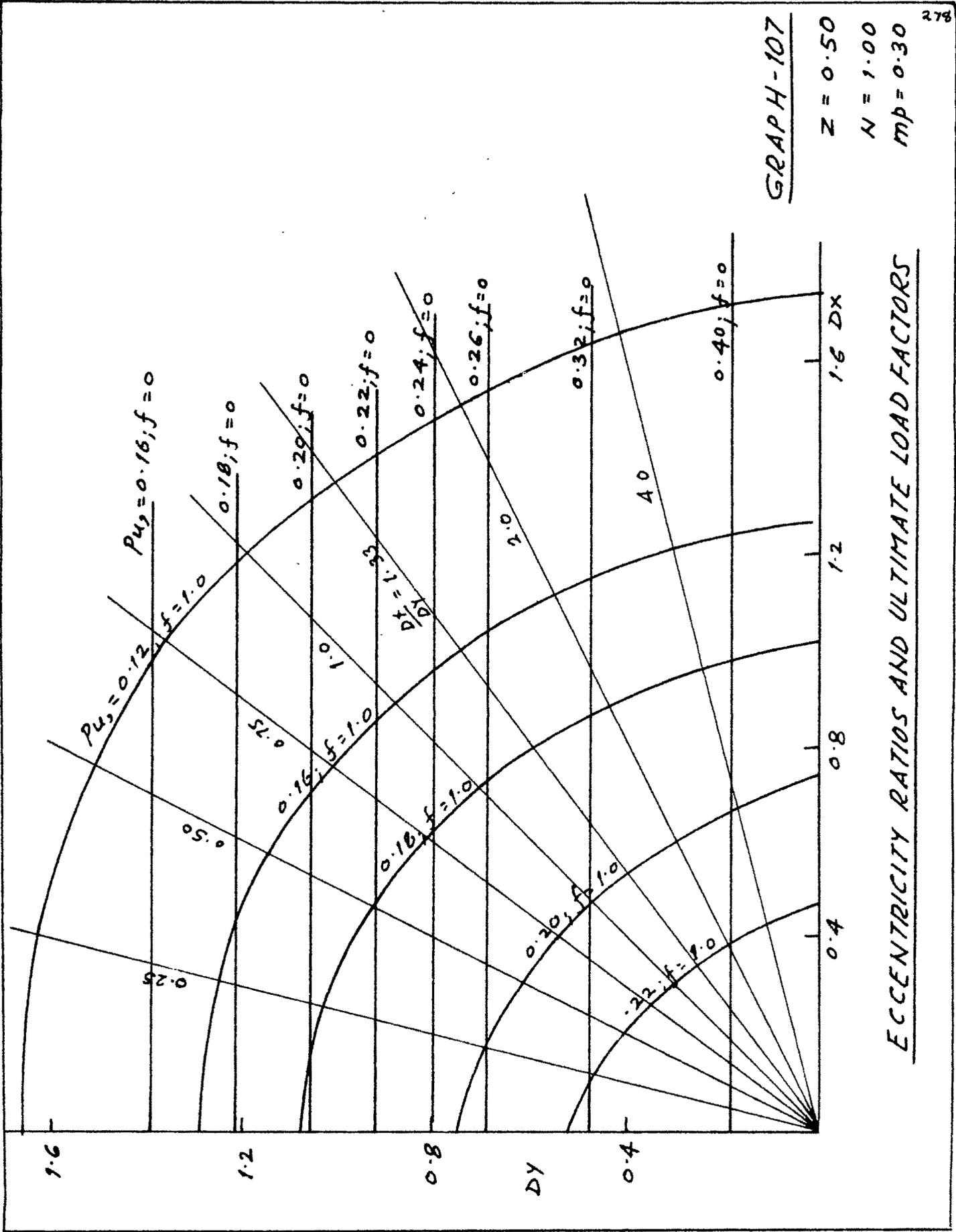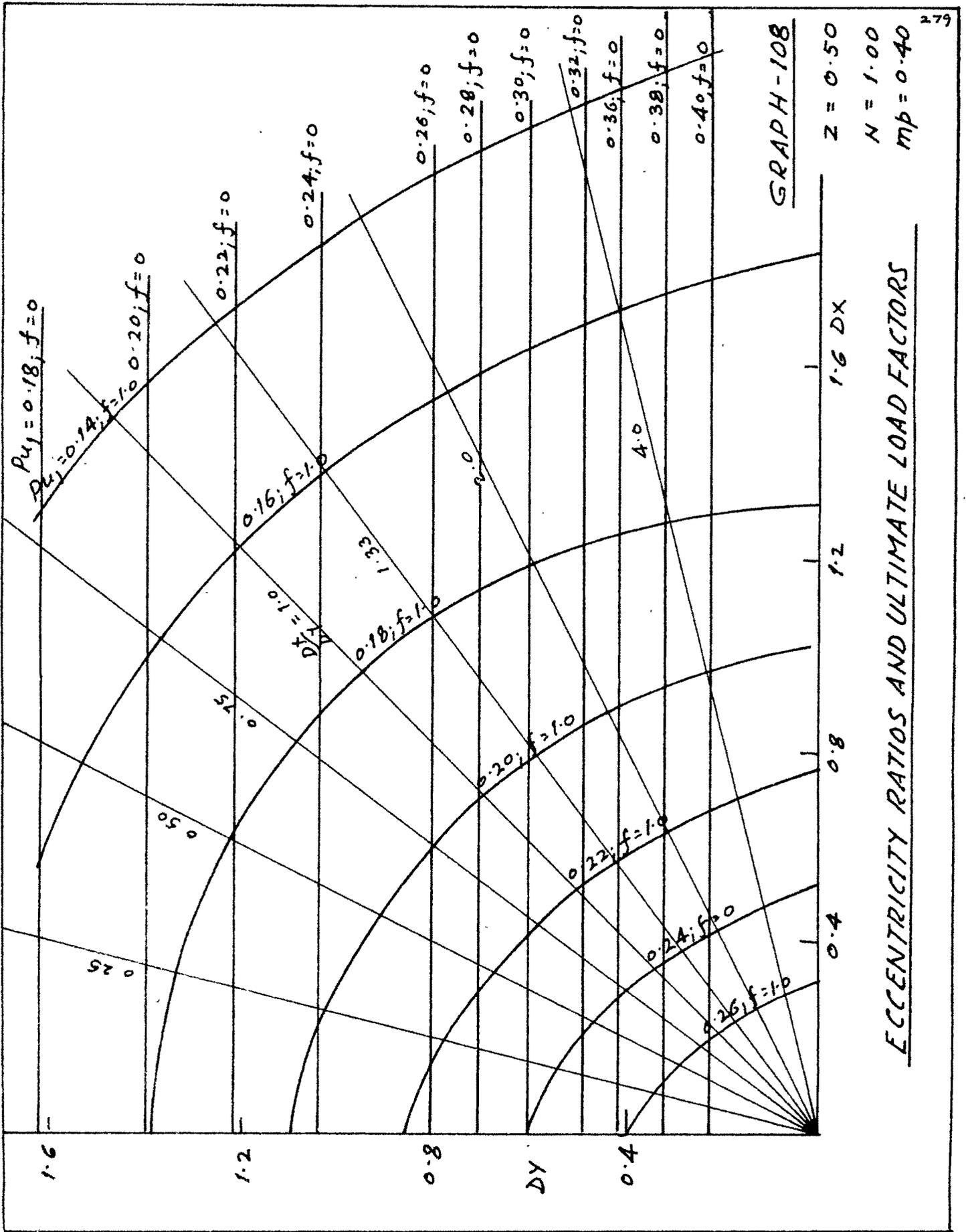ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

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GRAPH-106

$z = 0.50$
$N = 1.00$
$mp = 0.20$

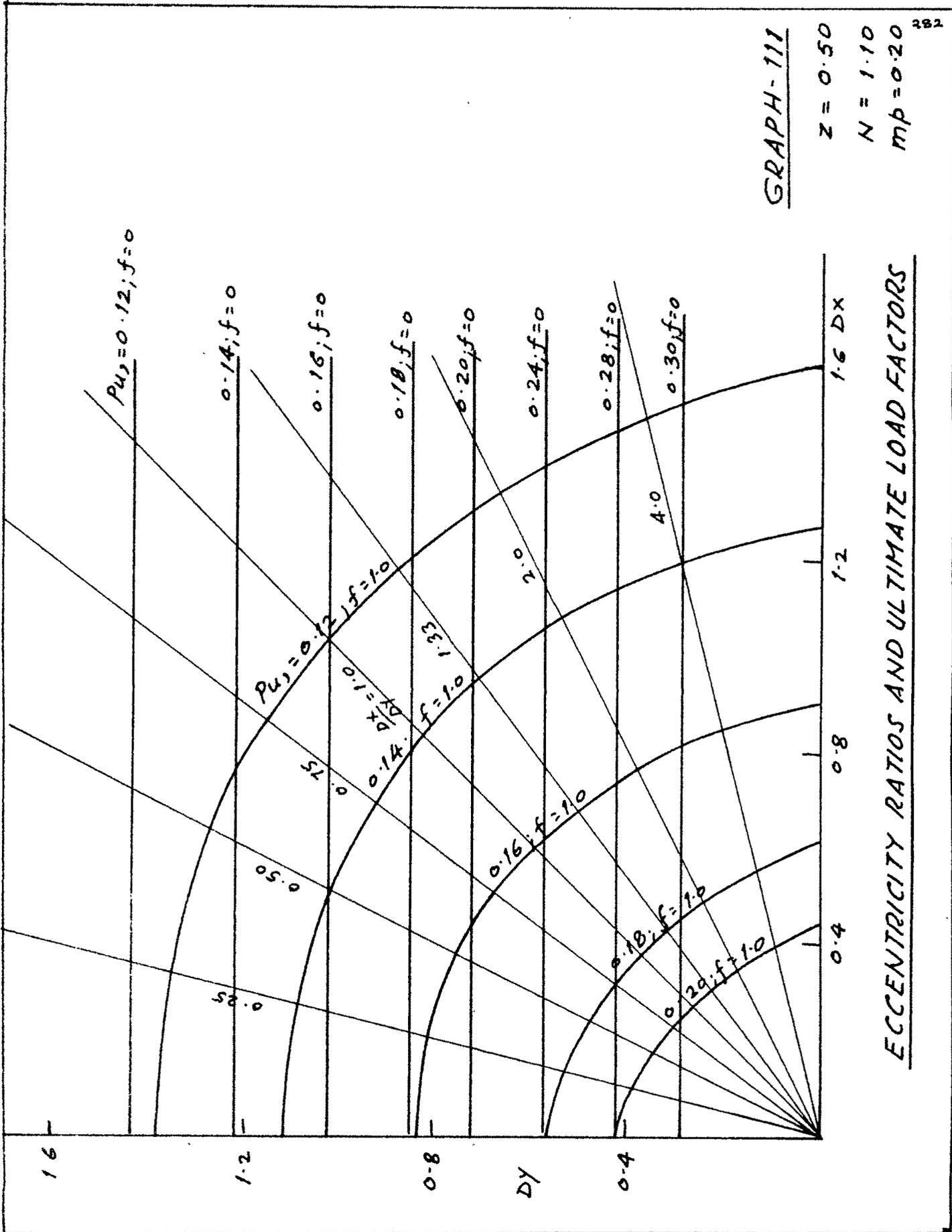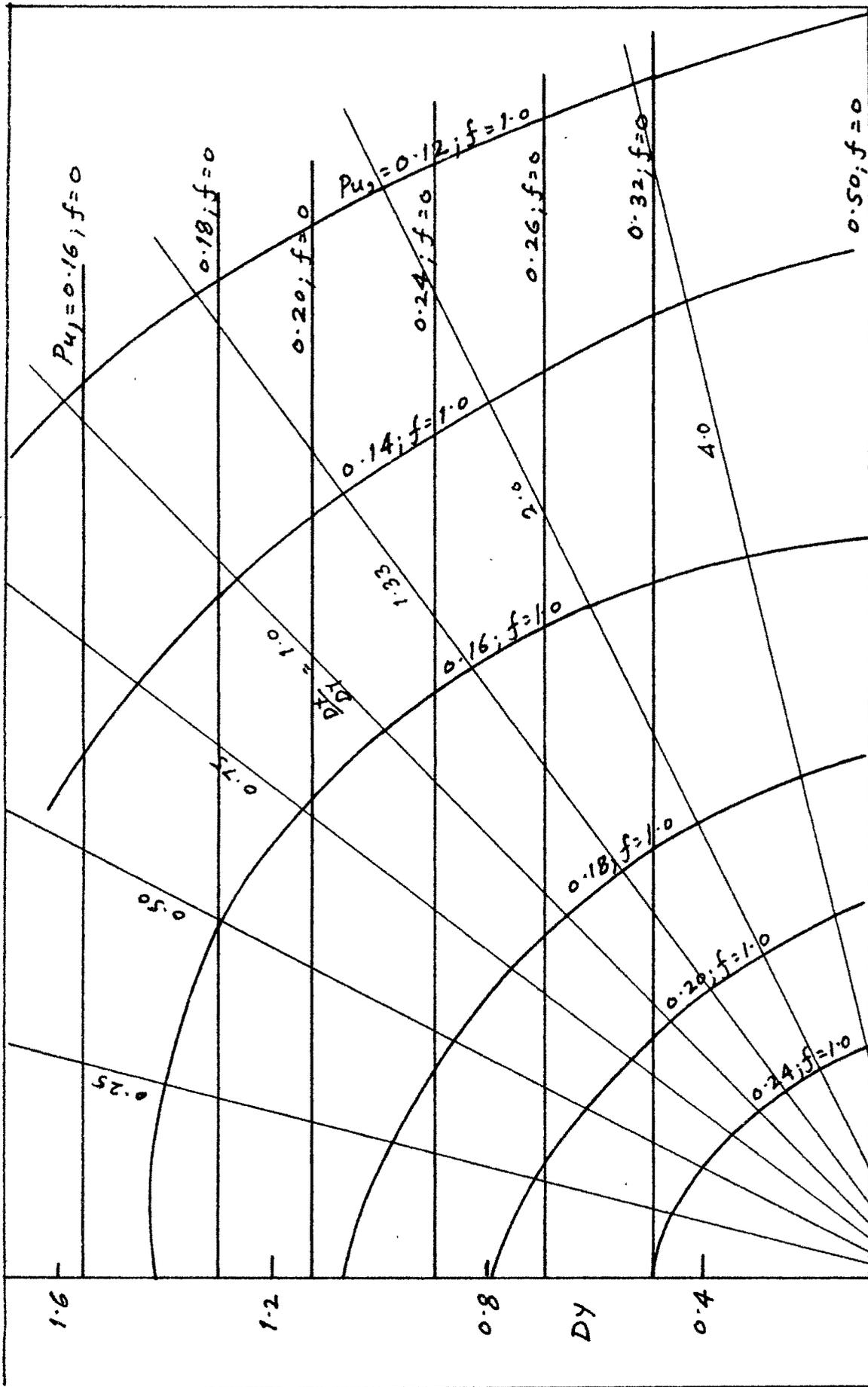ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

$Pu_2 = 0.06; f = 1.0$
$Pu_1 = 0.12; f = 0$
$0.14, f = 0$
$0.16, f = 0$
$0.18, f = 0$
$0.20, f = 0$
$0.22, f = 0$
$0.08; f = 1.0$
$0.10; f = 1.0$
$0.12; f = 1.0$
$0.14; f = 1.0$
$0.16; f = 1.0$
$0.18; f = 1.0$
$0.20; f = 1.0$
$0.40; f = 0$

$\frac{Dx}{Dy} = 1.0$

4.0
2.0
1.33
1.0
0.75
0.50
0.25

1.6 Dx
1.6
1.2
0.8
0.4

1.6
1.2
0.8
Dy
0.4

277

GRAPH-107

$Z = 0.50$
$N = 1.00$
$mp = 0.30$

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

$Pu_3 = 0.16; f = 0$
$0.18; f = 0$
$0.20; f = 0$
$0.22; f = 0$
$0.24; f = 0$
$0.26; f = 0$
$0.32; f = 0$
$0.40; f = 0$

$Pu_3 = 0.12; f = 1.0$
$Pu_3 = 0.12$
$0.16; f = 1.0$
$0.18; f = 1.0$
$0.20; f = 1.0$
$.22; f = 1.0$

0.25
0.50
0.75
1.0
1.33
2.0
4.0

$\frac{DX}{DY}$

1.6
1.2
0.8
DY
0.4

0.4 0.8 1.2 1.6 DX

278

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

GRAPH-108

$z = 0.50$
$N = 1.00$
$mp = 0.40$

279

GRAPH-109

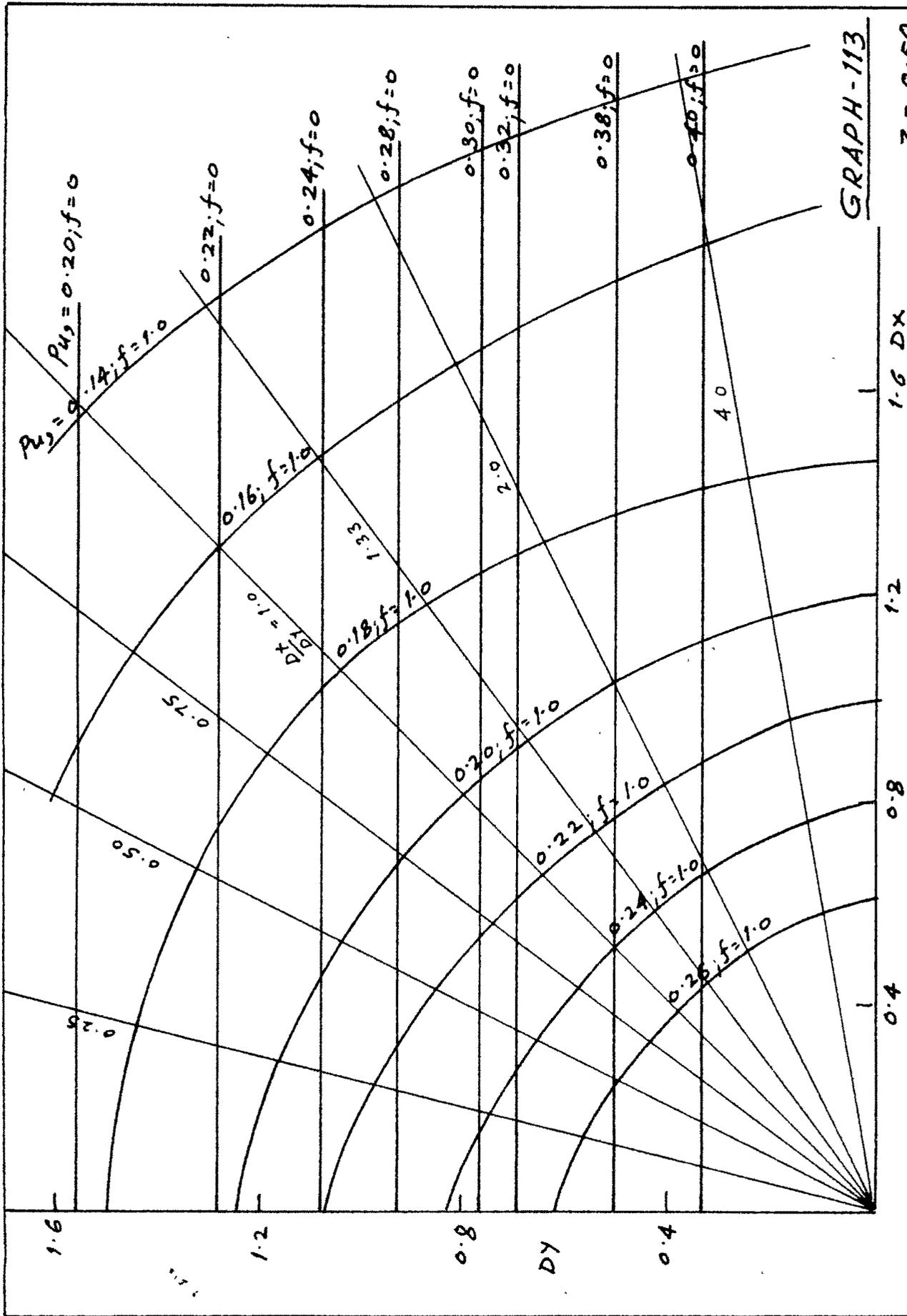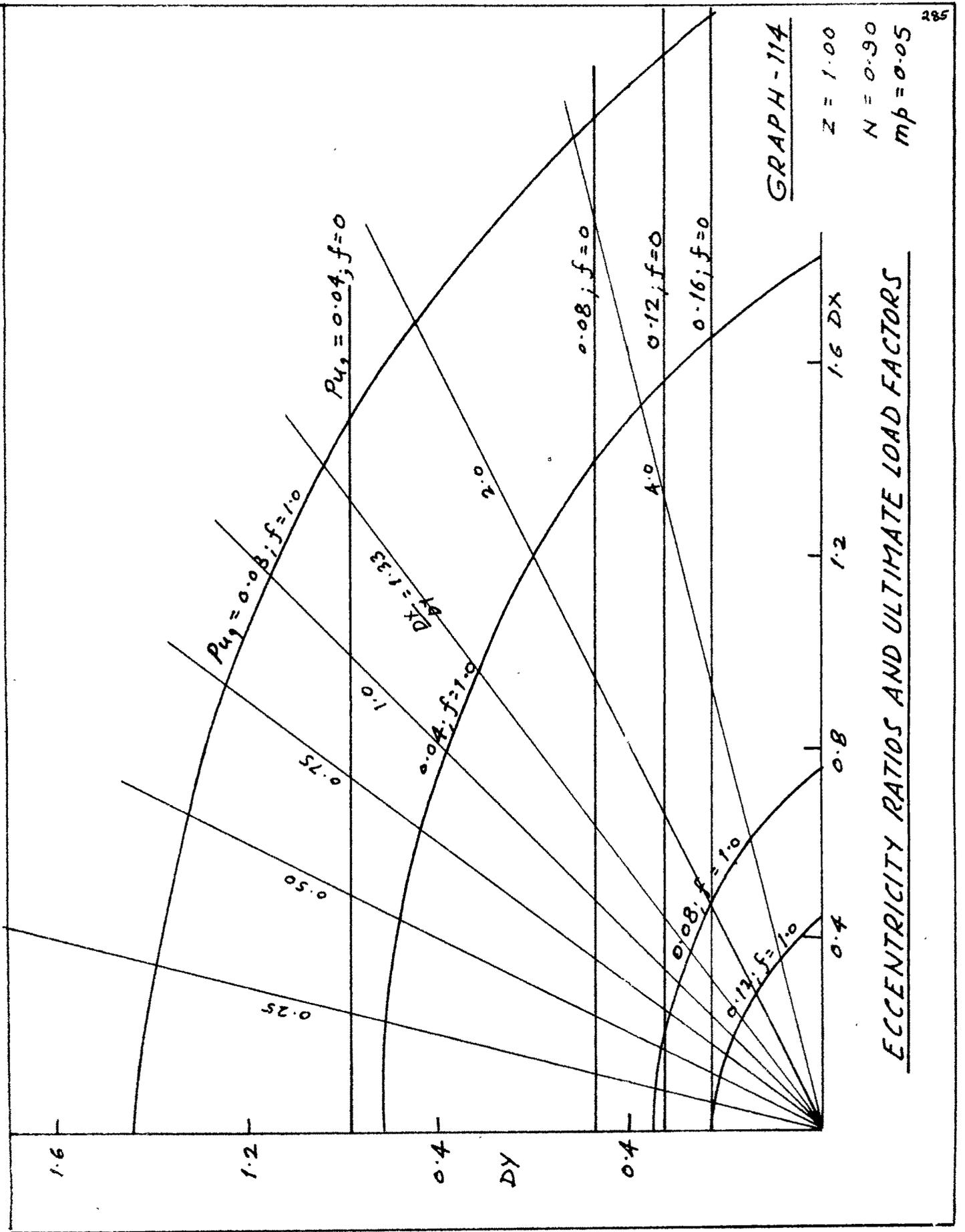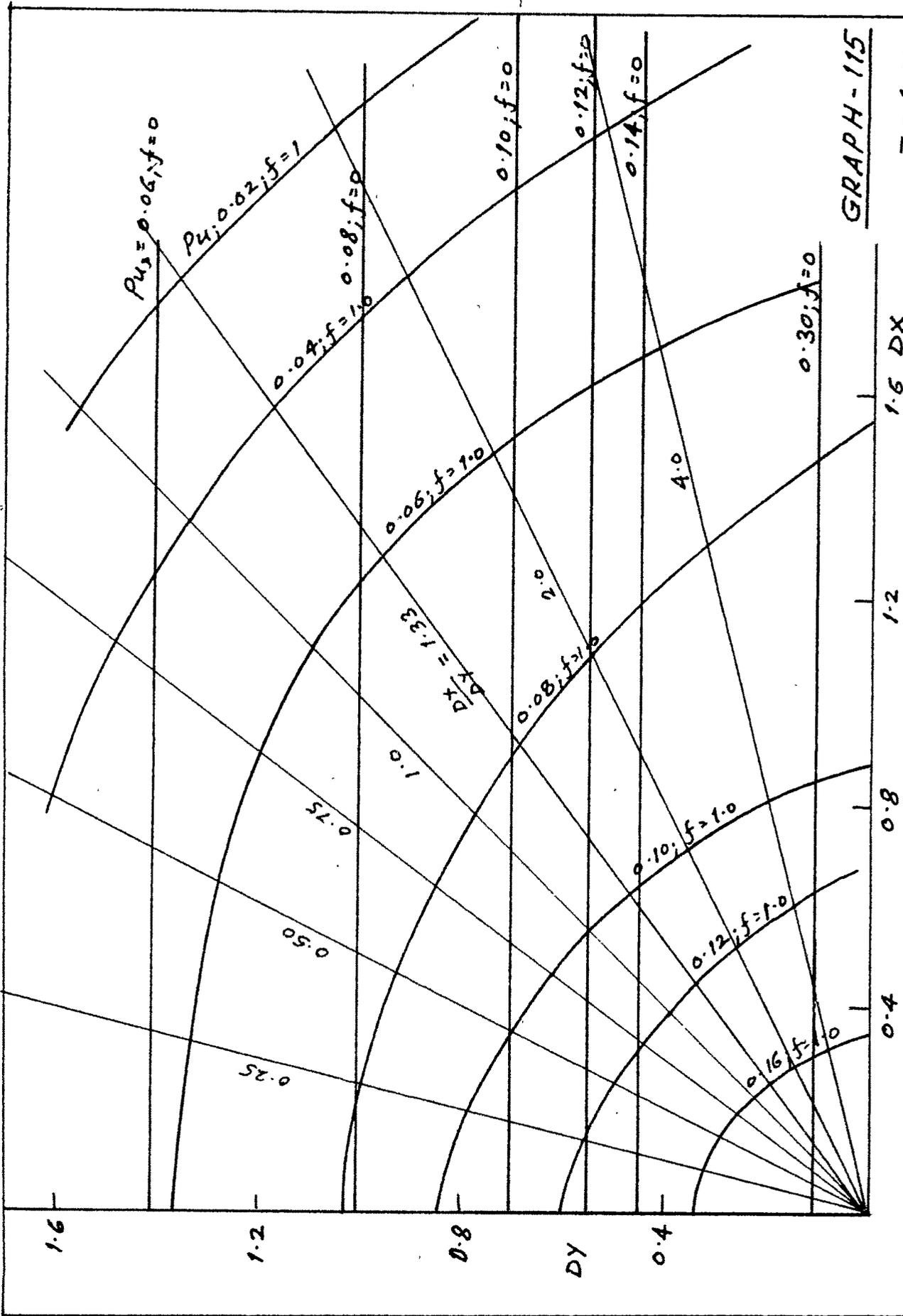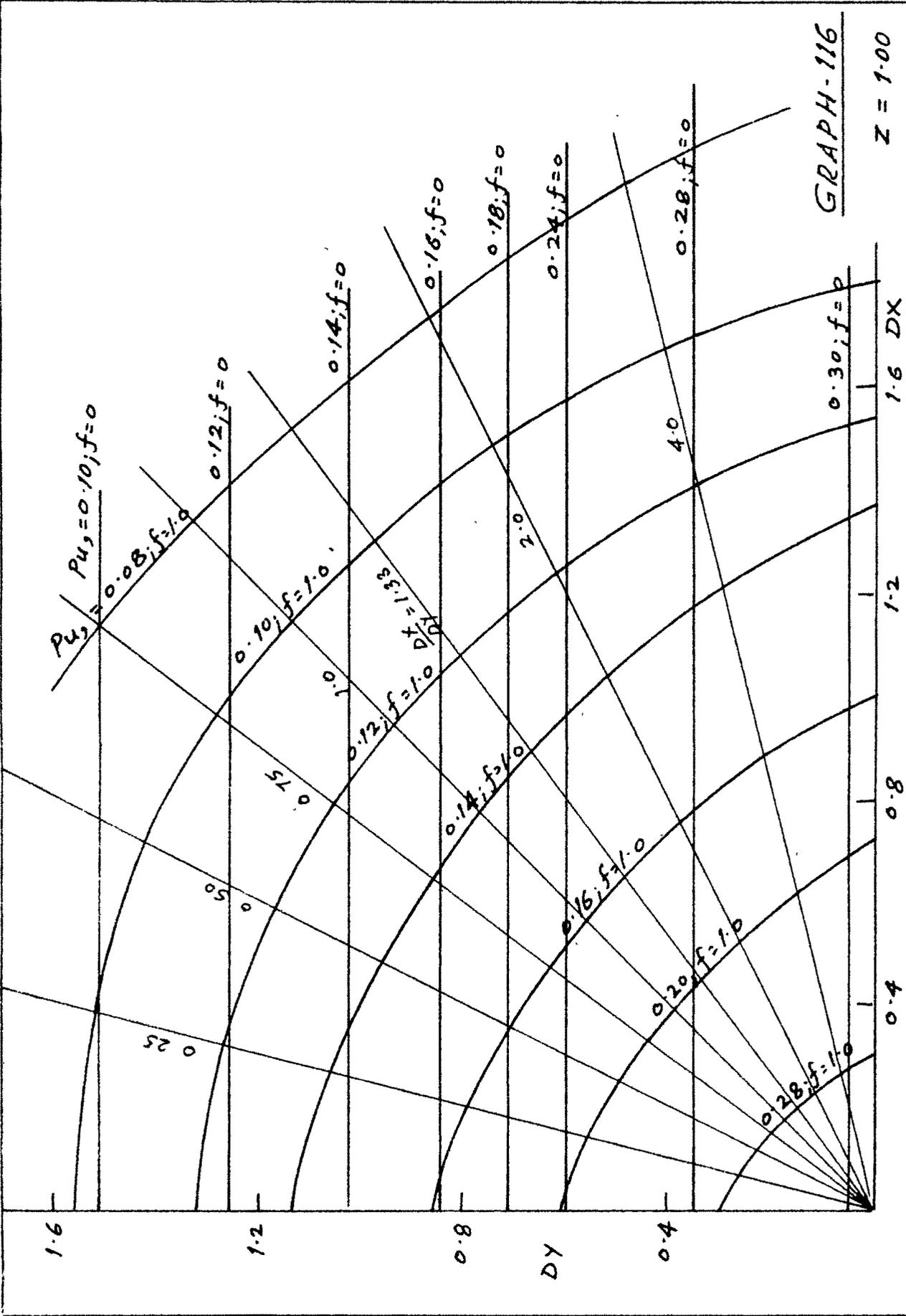ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

$Z = 0.50$
$N = 1.10$
$mp = 0.05$

GRAPH-110

$z = 0.50$

$N = 1.10$

$mp = 0.10$

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

GRAPH - 111

$z = 0.50$
$N = 1.10$
$mp = 0.20$

$Pu_1 = 0.12; f = 0$

$0.14; f = 0$

$0.16; f = 0$

$0.18; f = 0$

$0.20; f = 0$

$0.24; f = 0$

$0.28; f = 0$

$0.30; f = 0$

$Pu_1 = 0.12; f = 1.0$

$0.14; f = 1.0$

$0.16; f = 1.0$

$0.18; f = 1.0$

$0.20; f = 1.0$

DX/DY

$f = 1.0$

1.0

1.33

2.0

4.0

0.25

0.50

0.75

1.6 DX

1.2

0.8

0.4

1.6

1.2

0.8

DY

0.4

GRAPH - 112

$z = 0.5$
$N = 1.1$
$mp = 0.3$

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS
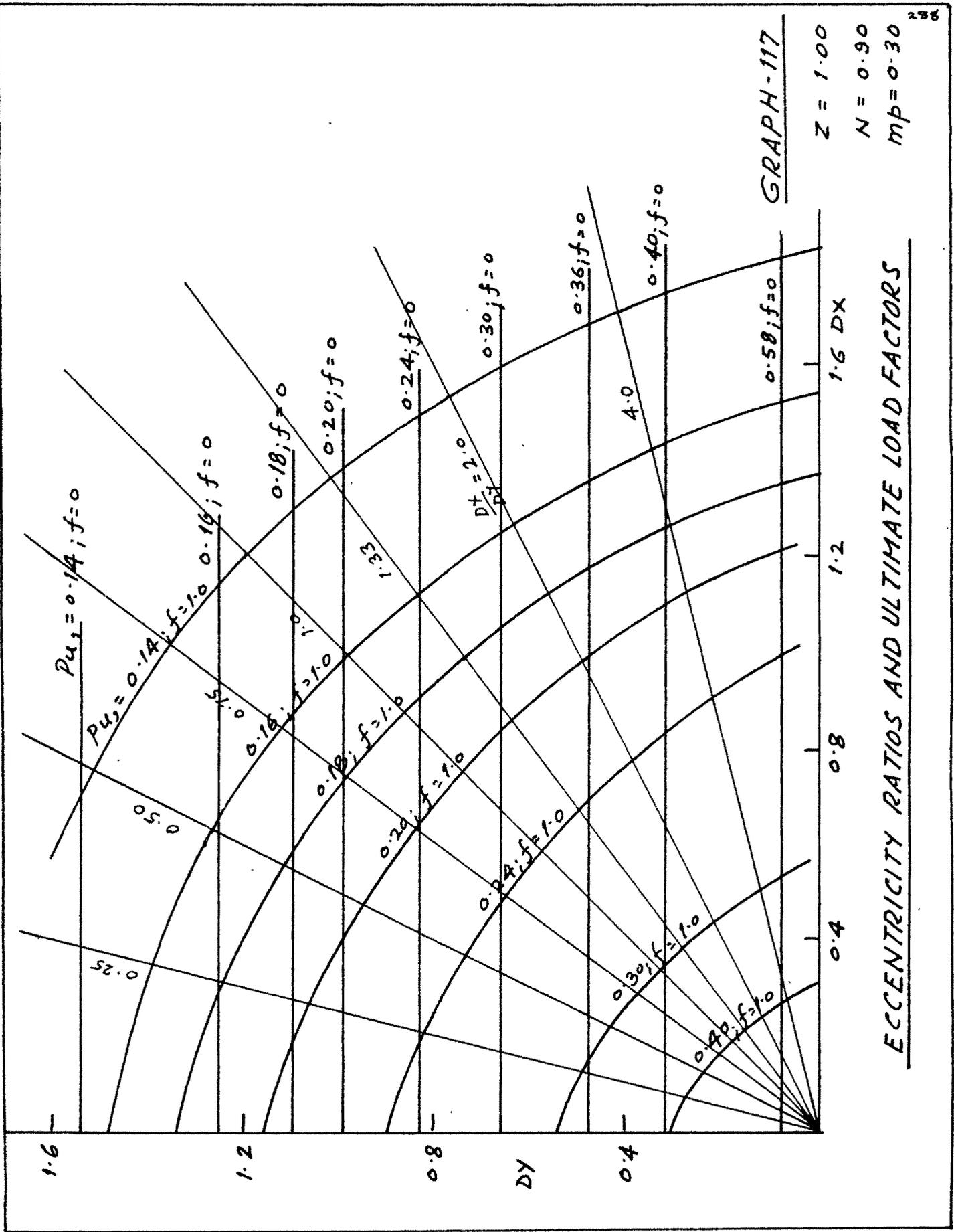
283

GRAPH-113

$z = 0.50$

$N = 1.10$

$mp = 0.40$

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

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GRAPH - 114

$z = 1.00$
$N = 0.90$
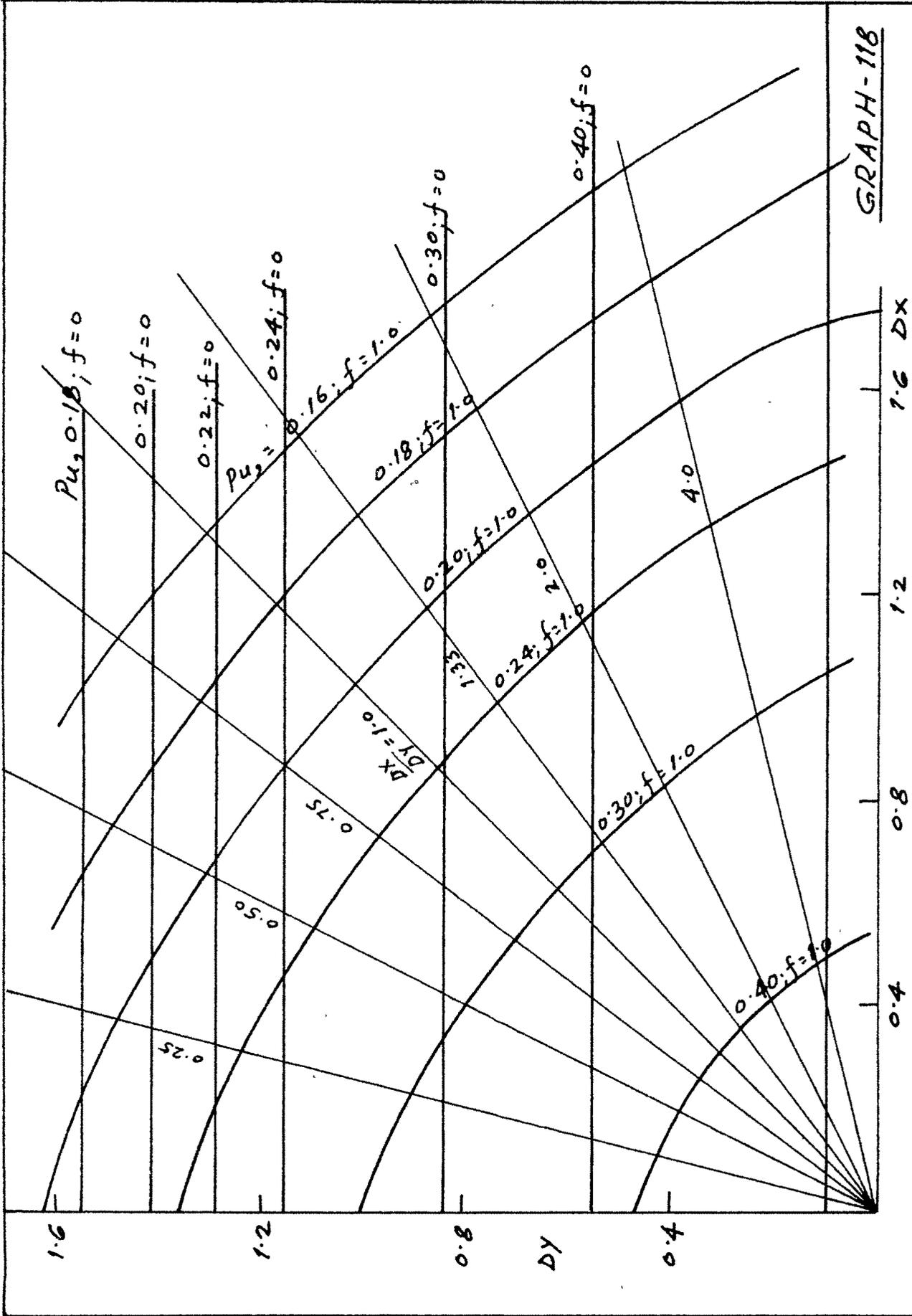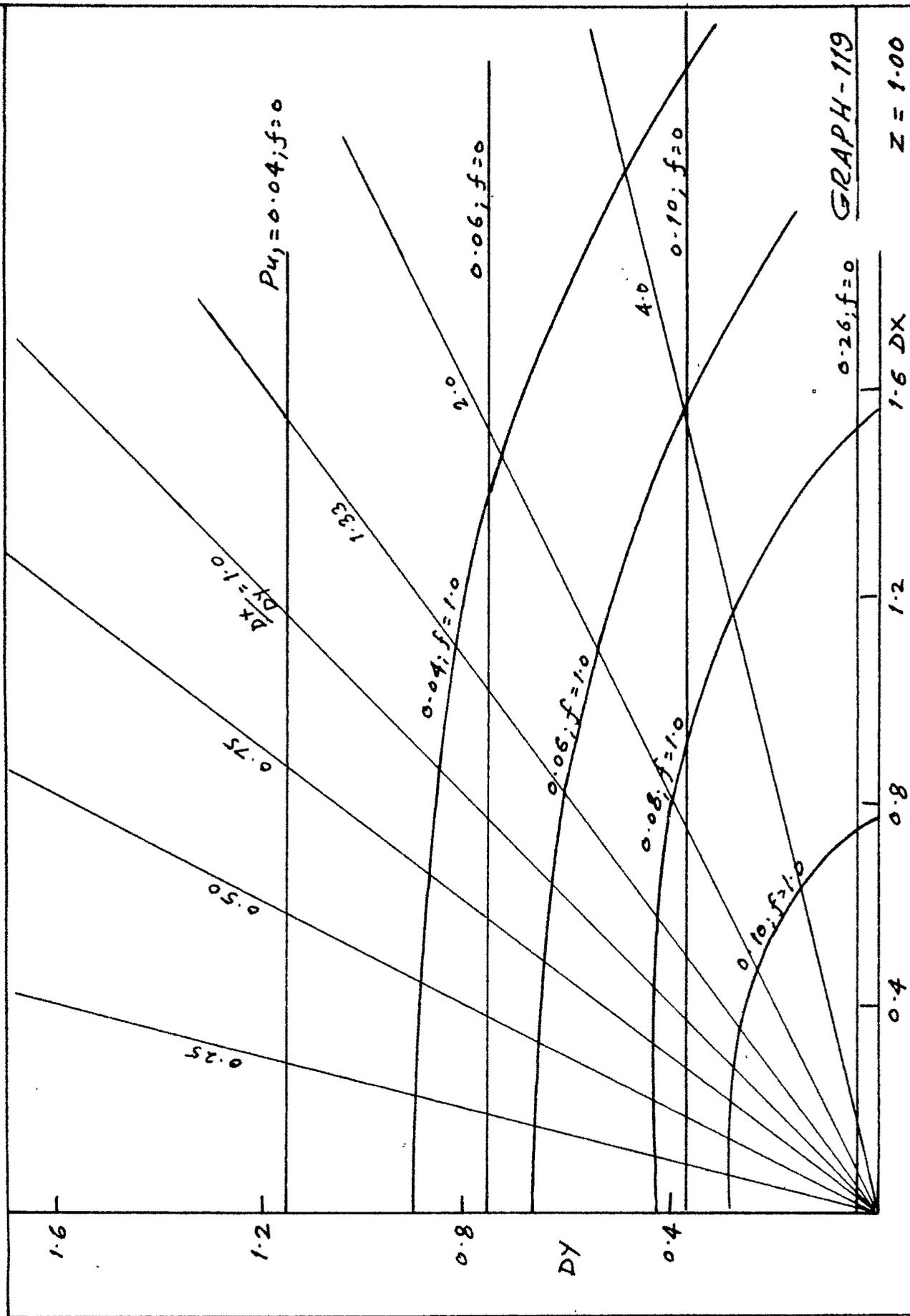$mp = 0.05$

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

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ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

GRAPH - 115

Z = 1·00
N = 0·90
mp = 0·10

286

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

GRAPH-116

Z = 1.00
N = 0.90
mp = 0.20

287

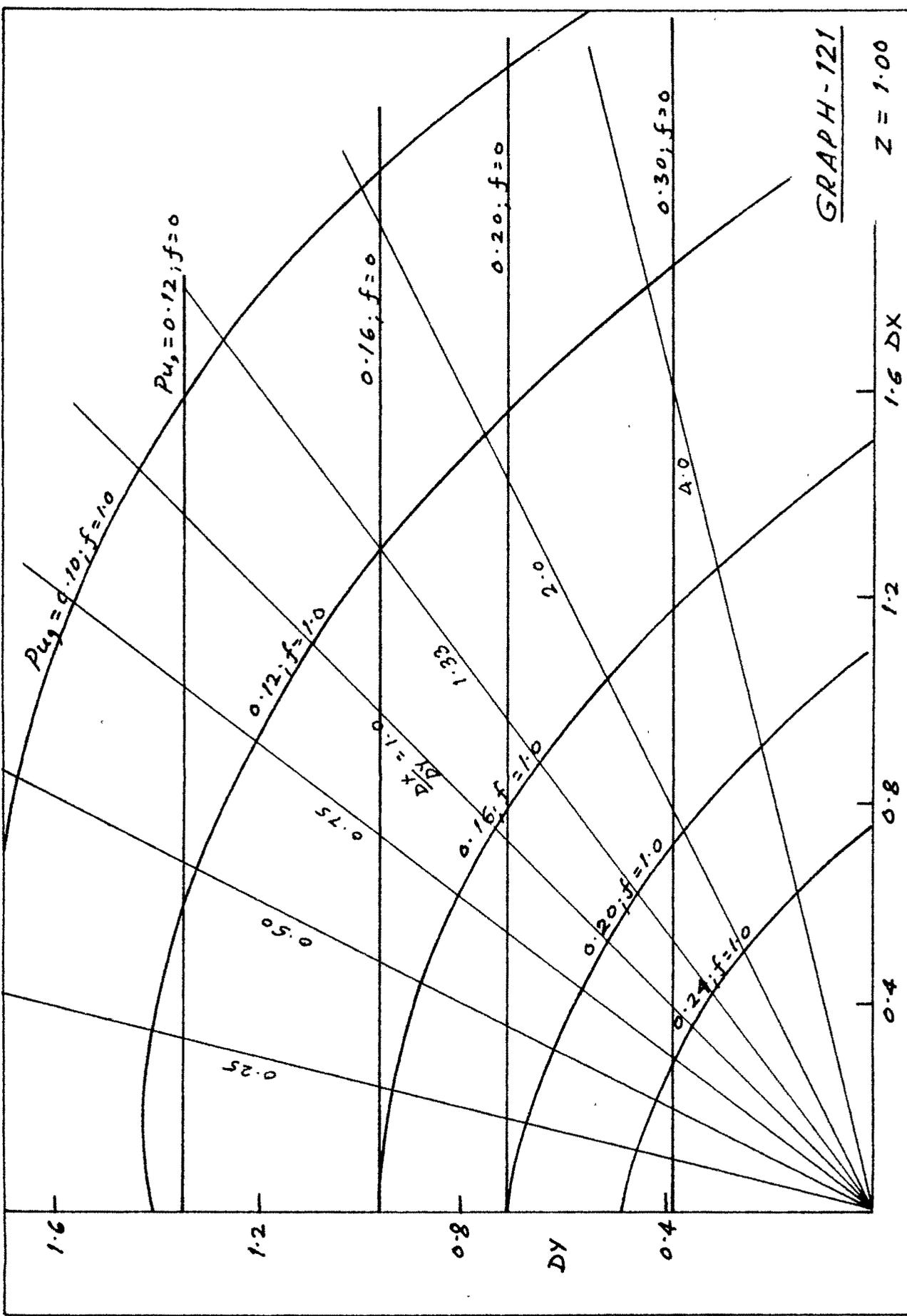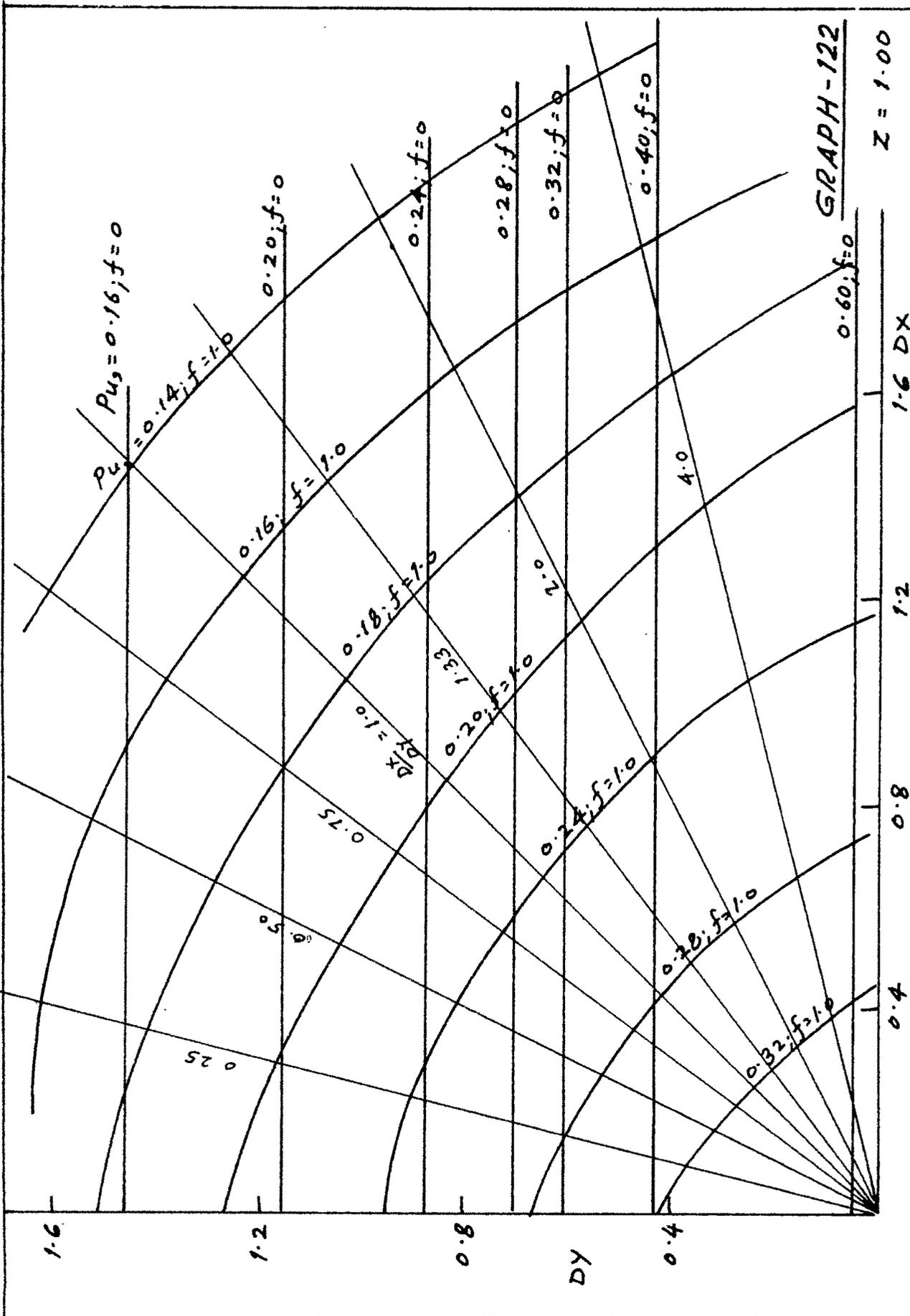ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

GRAPH-117

Z = 1·00
N = 0·90
mp = 0·30

GRAPH-118

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

$z = 1.00$
$N = 0.90$
$mp = 0.40$

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ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

GRAPH-119

$z = 1.00$
$N = 1.00$
$mp = 0.05$

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS
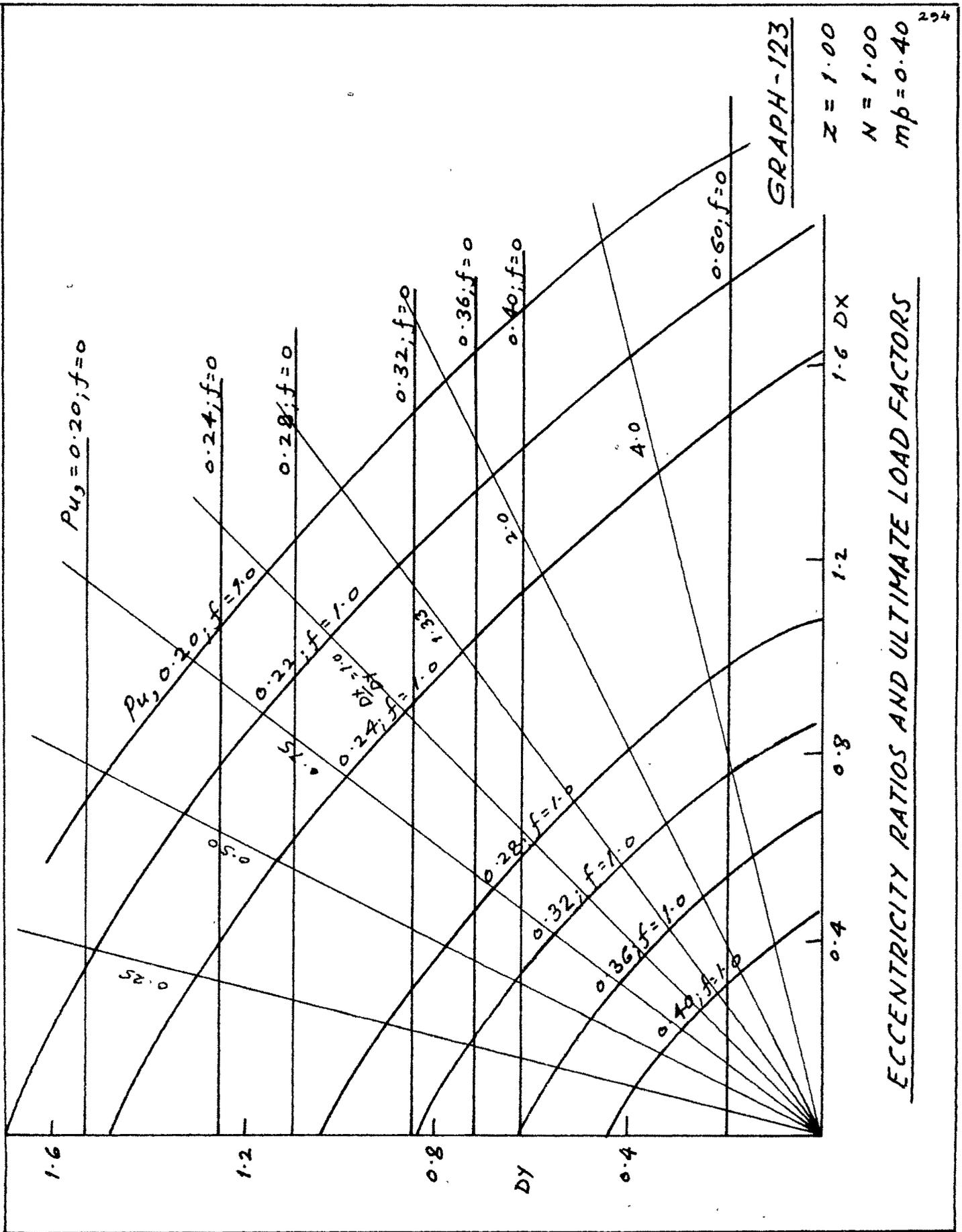
GRAPH - 120

Z = 1·00
N = 1·00
mp = 0·10

291

GRAPH - 121

Z = 1·00
N = 1·00
mp = 0·20

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

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ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS
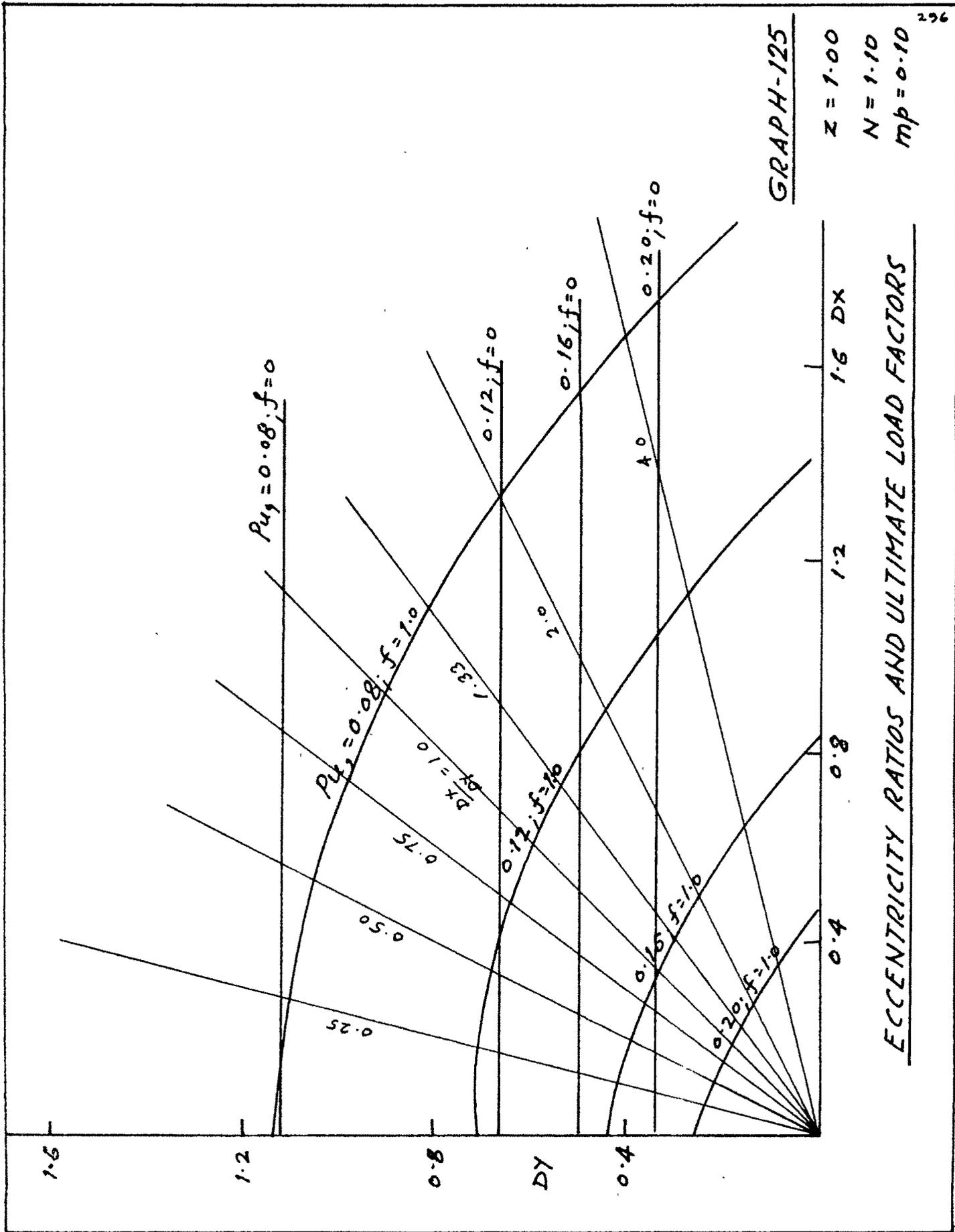
GRAPH-122

Z = 1.00
N = 1.00
mp = 0.30

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ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

GRAPH-123

z = 1.00
N = 1.00
mp = 0.40

294

GRAPH-124

Z = 1·00
N = 1·10
mp = 0·05

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

235

GRAPH-125

$z = 1.00$
$N = 1.10$
$mp = 0.10$

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS
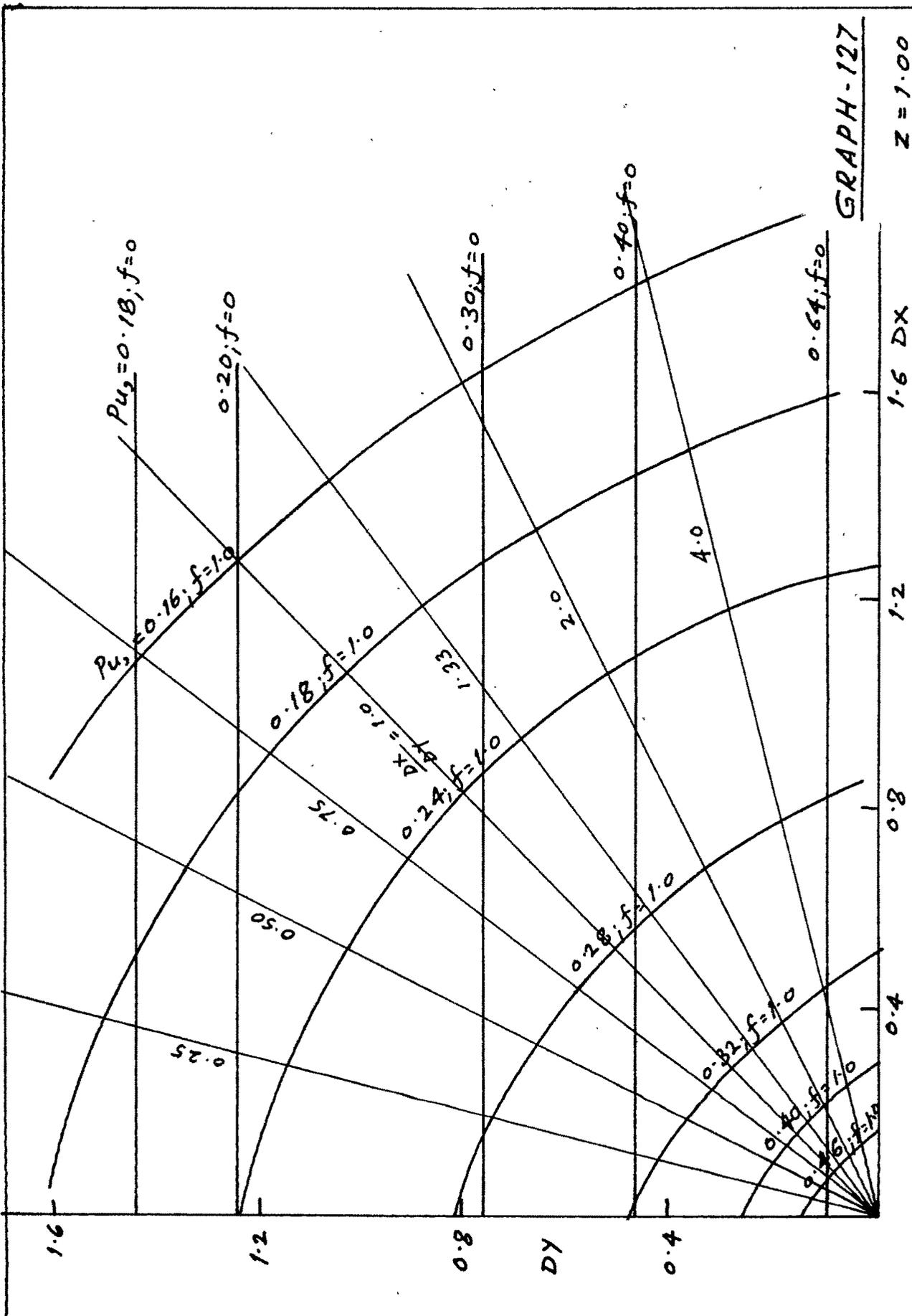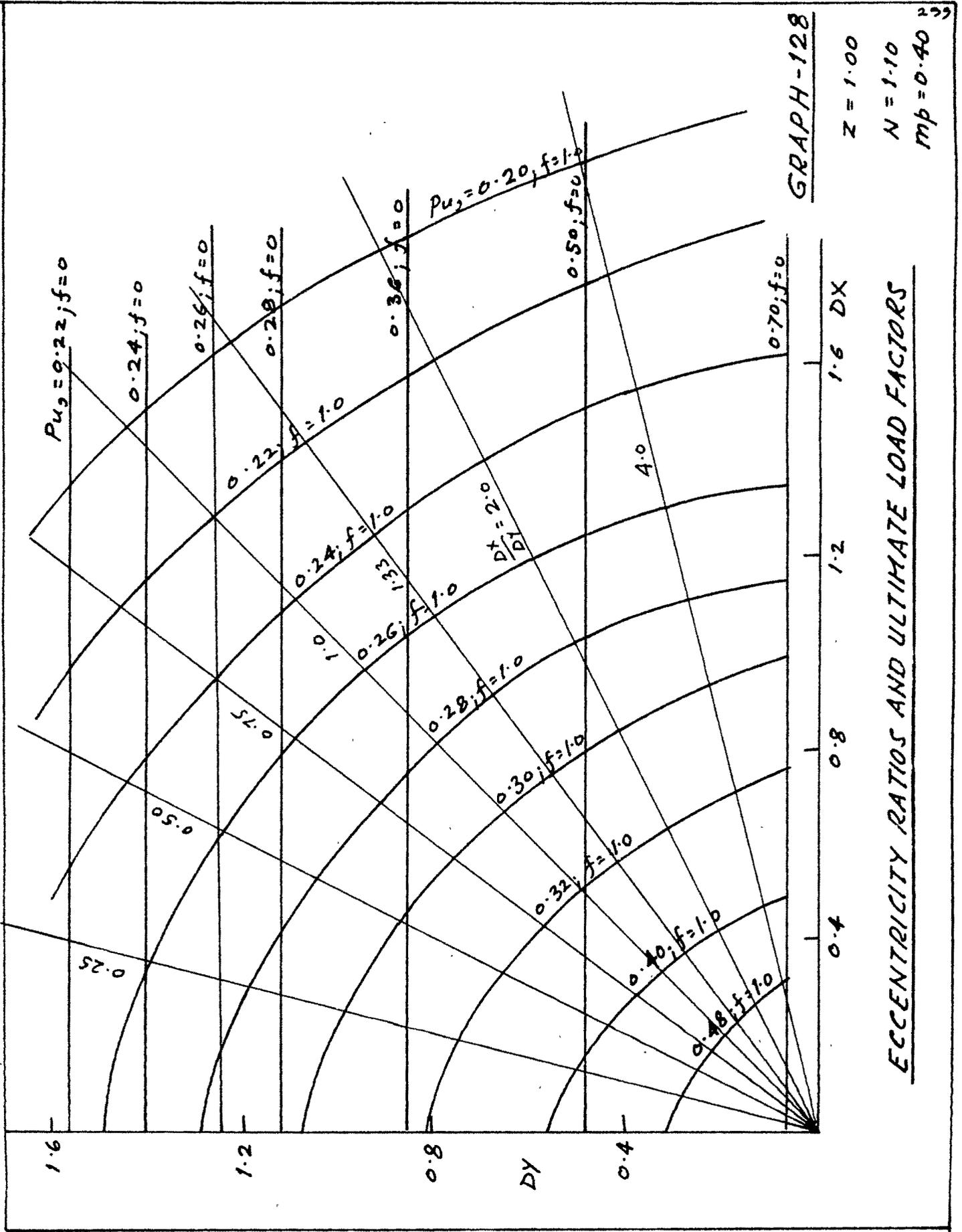
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ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

GRAPH-126

z = 1.00
N = 1.10
mp = 0.20

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

GRAPH-127

z = 1.00
N = 1.00
mp = 0.30

GRAPH-128

ECCENTRICITY RATIOS AND ULTIMATE LOAD FACTORS

z = 1·00
N = 1·10
mp = 0·40