

Initial Parameters...

R(load) = 500 ohms

r = 0.40

w = 0.10

INITIAL Particle 1 ::	pos(duty)=	0.40000000	fitness(Output Power)=	10.64447425
INITIAL Particle 2 ::	pos(duty)=	0.60000000	fitness(Output Power)=	23.53304429
INITIAL Particle 3 ::	pos(duty)=	0.80000000	fitness(Output Power)=	88.83299511

=====

+++++++Start of Iterations+++++++

=====

Iteration No: 1

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0320

0.0160

0

Particle 1 ::	pos(duty)=	0.43200000	fitness(Output Power)=	12.11999332
Particle 2 ::	pos(duty)=	0.61600000	fitness(Output Power)=	25.59744983
Particle 3 ::	pos(duty)=	0.80000000	fitness(Output Power)=	88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 2

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0326

0.0163

0

Particle 1 ::	pos(duty)=	0.46464000	fitness(Output Power)=	13.58447146
Particle 2 ::	pos(duty)=	0.63232000	fitness(Output Power)=	28.31386375
Particle 3 ::	pos(duty)=	0.80000000	fitness(Output Power)=	88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 3

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0301

0.0150

0

```
Particle 1 :: pos(duty)= 0.49473280 fitness(Output Power)= 15.03798532
Particle 2 :: pos(duty)= 0.64736640 fitness(Output Power)= 30.32439193
Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

Updated best Fitness Position = 0.80000000

Iteration No: 4

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0274

0.0137

0

```
Particle 1 :: pos(duty)= 0.52216346 fitness(Output Power)= 17.19786443
Particle 2 :: pos(duty)= 0.66108173 fitness(Output Power)= 32.96983973
Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

Updated best Fitness Position = 0.80000000

Iteration No: 5

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0250

0.0125

0

```
Particle 1 :: pos(duty)= 0.54713345 fitness(Output Power)= 18.62429944
Particle 2 :: pos(duty)= 0.67356672 fitness(Output Power)= 35.57550583
Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

Updated best Fitness Position = 0.80000000

Iteration No: 6

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0227

0.0114

0

```
Particle 1 :: pos(duty)= 0.56985977 fitness(Output Power)= 20.74391235
Particle 2 :: pos(duty)= 0.68492988 fitness(Output Power)= 37.50398015
Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

Updated best Fitness Position = 0.80000000

Iteration No: 7

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0207

0.0103

0

Particle 1 :: pos(duty)= 0.59054362 fitness(Output Power)= 22.83970002

Particle 2 :: pos(duty)= 0.69527181 fitness(Output Power)= 40.04134853

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 8

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0188

0.0094

0

Particle 1 :: pos(duty)= 0.60936851 fitness(Output Power)= 24.91191014

Particle 2 :: pos(duty)= 0.70468426 fitness(Output Power)= 42.54043113

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 9

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0171

0.0086

0

Particle 1 :: pos(duty)= 0.62650152 fitness(Output Power)= 26.96078784

Particle 2 :: pos(duty)= 0.71325076 fitness(Output Power)= 45.00175791

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 10

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0156

0.0078

0

Particle 1 :: pos(duty)= 0.64209470 fitness(Output Power)= 29.65674882

Particle 2 :: pos(duty)= 0.72104735 fitness(Output Power)= 47.42585151

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 11

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0142

0.0071

0

Particle 1 :: pos(duty)= 0.65628644 fitness(Output Power)= 31.65212326

Particle 2 :: pos(duty)= 0.72814322 fitness(Output Power)= 50.40439394

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 12

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0129

0.0065

0

Particle 1 :: pos(duty)= 0.66920270 fitness(Output Power)= 34.27761090

Particle 2 :: pos(duty)= 0.73460135 fitness(Output Power)= 52.74658666

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 13

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0118
0.0059
0

Particle 1 ::	pos(duty)=	0.68095811	fitness(Output Power)=	36.86359309
Particle 2 ::	pos(duty)=	0.74047906	fitness(Output Power)=	54.47985225
Particle 3 ::	pos(duty)=	0.80000000	fitness(Output Power)=	88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 14

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0107
0.0053
0

Particle 1 ::	pos(duty)=	0.69165700	fitness(Output Power)=	39.41061659
Particle 2 ::	pos(duty)=	0.74582850	fitness(Output Power)=	56.76009695
Particle 3 ::	pos(duty)=	0.80000000	fitness(Output Power)=	88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 15

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0097
0.0049
0

Particle 1 ::	pos(duty)=	0.70139433	fitness(Output Power)=	41.91922067
Particle 2 ::	pos(duty)=	0.75069717	fitness(Output Power)=	59.00561554
Particle 3 ::	pos(duty)=	0.80000000	fitness(Output Power)=	88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 16

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0089
0.0044
0

```
Particle 1 :: pos(duty)= 0.71025652 fitness(Output Power)= 44.38993712
Particle 2 :: pos(duty)= 0.75512826 fitness(Output Power)= 61.21688887
Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

Updated best Fitness Position = 0.80000000

Iteration No: 17

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0081

0.0040

0

```
Particle 1 :: pos(duty)= 0.71832222 fitness(Output Power)= 46.82329041
Particle 2 :: pos(duty)= 0.75916111 fitness(Output Power)= 62.85315593
Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

Updated best Fitness Position = 0.80000000

Iteration No: 18

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0073

0.0037

0

```
Particle 1 :: pos(duty)= 0.72566301 fitness(Output Power)= 49.21979779
Particle 2 :: pos(duty)= 0.76283150 fitness(Output Power)= 65.00563718
Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

Updated best Fitness Position = 0.80000000

Iteration No: 19

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0067

0.0033

0

```
Particle 1 :: pos(duty)= 0.73234405 fitness(Output Power)= 51.57996934
Particle 2 :: pos(duty)= 0.76617202 fitness(Output Power)= 66.59834511
Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

Updated best Fitness Position = 0.80000000

Iteration No: 20

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0061

0.0030

0

Particle 1 :: pos(duty)= 0.73842463 fitness(Output Power)= 53.90430813

Particle 2 :: pos(duty)= 0.76921231 fitness(Output Power)= 68.17270782

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 21

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0055

0.0028

0

Particle 1 :: pos(duty)= 0.74395872 fitness(Output Power)= 56.19331028

Particle 2 :: pos(duty)= 0.77197936 fitness(Output Power)= 69.72891620

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 22

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0050

0.0025

0

Particle 1 :: pos(duty)= 0.74899543 fitness(Output Power)= 58.44746505

Particle 2 :: pos(duty)= 0.77449771 fitness(Output Power)= 71.26715916

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 23

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0046

0.0023

0

Particle 1 :: pos(duty)= 0.75357946 fitness(Output Power)= 60.66725498

Particle 2 :: pos(duty)= 0.77678973 fitness(Output Power)= 72.78762365

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 24

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0042

0.0021

0

Particle 1 :: pos(duty)= 0.75775151 fitness(Output Power)= 62.30983201

Particle 2 :: pos(duty)= 0.77887576 fitness(Output Power)= 73.79148117

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 25

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0038

0.0019

0

Particle 1 :: pos(duty)= 0.76154859 fitness(Output Power)= 64.47062454

Particle 2 :: pos(duty)= 0.78077430 fitness(Output Power)= 75.28272508

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 26

c1 = 0.20000000 c2 = 0.20000000


```
velocity =
```

```
    0.0035  
    0.0017  
         0
```

```
Particle 1 :: pos(duty)=    0.76500442    fitness(Output Power)=    66.06949031  
Particle 2 :: pos(duty)=    0.78250221    fitness(Output Power)=    76.26727134  
Particle 3 :: pos(duty)=    0.80000000    fitness(Output Power)=    88.83299511
```

```
Updated best Fitness Position =    0.80000000
```

```
-----
```

```
Iteration No: 27
```

```
c1 =    0.20000000    c2 =    0.20000000
```

```
velocity =
```

```
    0.0031  
    0.0016  
         0
```

```
Particle 1 :: pos(duty)=    0.76814964    fitness(Output Power)=    67.64994678  
Particle 2 :: pos(duty)=    0.78407482    fitness(Output Power)=    77.24418689  
Particle 3 :: pos(duty)=    0.80000000    fitness(Output Power)=    88.83299511
```

```
Updated best Fitness Position =    0.80000000
```

```
-----
```

```
Iteration No: 28
```

```
c1 =    0.20000000    c2 =    0.20000000
```

```
velocity =
```

```
    0.0029  
    0.0014  
         0
```

```
Particle 1 :: pos(duty)=    0.77101220    fitness(Output Power)=    69.21218551  
Particle 2 :: pos(duty)=    0.78550610    fitness(Output Power)=    78.21352477  
Particle 3 :: pos(duty)=    0.80000000    fitness(Output Power)=    88.83299511
```

```
Updated best Fitness Position =    0.80000000
```

```
-----
```

```
Iteration No: 29
```

```
c1 =    0.20000000    c2 =    0.20000000
```

```
velocity =
```

```
    0.0026  
    0.0013
```

0

```
Particle 1 :: pos(duty)= 0.77361747 fitness(Output Power)= 70.75639608
Particle 2 :: pos(duty)= 0.78680874 fitness(Output Power)= 79.17533765
Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

Updated best Fitness Position = 0.80000000

Iteration No: 30

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0024

0.0012

0

```
Particle 1 :: pos(duty)= 0.77598860 fitness(Output Power)= 72.28276608
Particle 2 :: pos(duty)= 0.78799430 fitness(Output Power)= 80.12967783
Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

Updated best Fitness Position = 0.80000000

Iteration No: 31

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0022

0.0011

0

```
Particle 1 :: pos(duty)= 0.77814663 fitness(Output Power)= 73.79148117
Particle 2 :: pos(duty)= 0.78907331 fitness(Output Power)= 80.60406191
Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511
```

Updated best Fitness Position = 0.80000000

Iteration No: 32

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0020

0.0010

0

```
Particle 1 :: pos(duty)= 0.78011070 fitness(Output Power)= 74.78757375
Particle 2 :: pos(duty)= 0.79005535 fitness(Output Power)= 81.54729033
```

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 33

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0018

0.0009

0

Particle 1 :: pos(duty)= 0.78189825 fitness(Output Power)= 75.77595537

Particle 2 :: pos(duty)= 0.79094913 fitness(Output Power)= 82.01614752

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 34

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0016

0.0008

0

Particle 1 :: pos(duty)= 0.78352515 fitness(Output Power)= 77.24418689

Particle 2 :: pos(duty)= 0.79176257 fitness(Output Power)= 82.94837984

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 35

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0015

0.0007

0

Particle 1 :: pos(duty)= 0.78500583 fitness(Output Power)= 78.21352477

Particle 2 :: pos(duty)= 0.79250291 fitness(Output Power)= 83.41176768

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 36

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0013

0.0007

0

Particle 1 :: pos(duty)= 0.78635343 fitness(Output Power)= 78.69536856

Particle 2 :: pos(duty)= 0.79317671 fitness(Output Power)= 83.87334509

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 37

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0012

0.0006

0

Particle 1 :: pos(duty)= 0.78757991 fitness(Output Power)= 79.65343857

Particle 2 :: pos(duty)= 0.79378996 fitness(Output Power)= 84.33311836

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 38

c1 = 0.20000000 c2 = 0.20000000

velocity =

0.0011

0.0006

0

Particle 1 :: pos(duty)= 0.78869617 fitness(Output Power)= 80.60406191

Particle 2 :: pos(duty)= 0.79434808 fitness(Output Power)= 84.79109378

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 39

```
c1 = 0.20000000    c2 = 0.20000000
velocity =
```

```
0.0010
0.0005
0
```

```
Particle 1 :: pos(duty)= 0.78971210    fitness(Output Power)= 81.07659726
Particle 2 :: pos(duty)= 0.79485605    fitness(Output Power)= 85.24727761
Particle 3 :: pos(duty)= 0.80000000    fitness(Output Power)= 88.83299511
```

```
Updated best Fitness Position = 0.80000000
```

```
-----
```

```
Iteration No: 40
```

```
c1 = 0.20000000    c2 = 0.20000000
velocity =
```

```
1.0e-03 *

0.9246
0.4623
0
```

```
Particle 1 :: pos(duty)= 0.79063673    fitness(Output Power)= 82.01614752
Particle 2 :: pos(duty)= 0.79531836    fitness(Output Power)= 85.24727761
Particle 3 :: pos(duty)= 0.80000000    fitness(Output Power)= 88.83299511
```

```
Updated best Fitness Position = 0.80000000
```

```
-----
```

```
Iteration No: 41
```

```
c1 = 0.20000000    c2 = 0.20000000
velocity =
```

```
1.0e-03 *

0.8415
0.4208
0
```

```
Particle 1 :: pos(duty)= 0.79147825    fitness(Output Power)= 82.48317524
Particle 2 :: pos(duty)= 0.79573913    fitness(Output Power)= 85.70167609
Particle 3 :: pos(duty)= 0.80000000    fitness(Output Power)= 88.83299511
```

```
Updated best Fitness Position = 0.80000000
```

```
-----
```

```
Iteration No: 42
```

c1 = 0.20000000 c2 = 0.20000000

velocity =

1.0e-03 *

0.7659

0.3829

0

Particle 1 :: pos(duty)= 0.79224414 fitness(Output Power)= 82.94837984

Particle 2 :: pos(duty)= 0.79612207 fitness(Output Power)= 86.15429544

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 43

c1 = 0.20000000 c2 = 0.20000000

velocity =

1.0e-03 *

0.6971

0.3485

0

Particle 1 :: pos(duty)= 0.79294120 fitness(Output Power)= 83.41176768

Particle 2 :: pos(duty)= 0.79647060 fitness(Output Power)= 86.15429544

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 44

c1 = 0.20000000 c2 = 0.20000000

velocity =

1.0e-03 *

0.6344

0.3172

0

Particle 1 :: pos(duty)= 0.79357561 fitness(Output Power)= 83.87334509

Particle 2 :: pos(duty)= 0.79678781 fitness(Output Power)= 86.60514184

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 45

c1 = 0.20000000 c2 = 0.20000000

velocity =

1.0e-03 *

0.5774

0.2887

0

Particle 1 :: pos(duty)= 0.79415300 fitness(Output Power)= 84.33311836

Particle 2 :: pos(duty)= 0.79707650 fitness(Output Power)= 86.60514184

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 46

c1 = 0.20000000 c2 = 0.20000000

velocity =

1.0e-03 *

0.5255

0.2627

0

Particle 1 :: pos(duty)= 0.79467850 fitness(Output Power)= 84.79109378

Particle 2 :: pos(duty)= 0.79733925 fitness(Output Power)= 87.05422148

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 47

c1 = 0.20000000 c2 = 0.20000000

velocity =

1.0e-03 *

0.4783

0.2391

0

Particle 1 :: pos(duty)= 0.79515677 fitness(Output Power)= 85.24727761

Particle 2 :: pos(duty)= 0.79757839 fitness(Output Power)= 87.05422148

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 48

c1 = 0.20000000 c2 = 0.20000000

velocity =

1.0e-03 *

0.4353

0.2176

0

Particle 1 :: pos(duty)= 0.79559206 fitness(Output Power)= 85.70167609

Particle 2 :: pos(duty)= 0.79779603 fitness(Output Power)= 87.50154051

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 49

c1 = 0.20000000 c2 = 0.20000000

velocity =

1.0e-03 *

0.3962

0.1981

0

Particle 1 :: pos(duty)= 0.79598822 fitness(Output Power)= 85.70167609

Particle 2 :: pos(duty)= 0.79799411 fitness(Output Power)= 87.50154051

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

Iteration No: 50

c1 = 0.20000000 c2 = 0.20000000

velocity =

1.0e-03 *

0.3606

0.1803

0

Particle 1 :: pos(duty)= 0.79634878 fitness(Output Power)= 86.15429544

Particle 2 :: pos(duty)= 0.79817439 fitness(Output Power)= 87.50154051

Particle 3 :: pos(duty)= 0.80000000 fitness(Output Power)= 88.83299511

Updated best Fitness Position = 0.80000000

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