|  |  |  |
| --- | --- | --- |
| **Iteration** | **Strain** | **Stress** |
| **1** | 0 | 0 |
| **2** | 0.003399 | 0.799338 |
| **3** | 0.003401 | 0.799999 |
| **4** | 0.003401 | 0.8 |
| **5** | 0.003401 | 0.8 |
| **6** | 0.003401 | 0.8 |
| **7** | 0.003401 | 0.8 |
| **8** | 0.008539 | 2.006387 |
| **9** | 0.008547 | 2.008879 |
| **10** | 0.008547 | 2.008889 |
| **11** | 0.008547 | 2.008889 |
| **12** | 0.008547 | 2.008889 |
| **13** | 0.008547 | 2.008889 |
| **14** | 0.008547 | 2.008889 |
| **15** | 0.01369 | 3.213789 |
| **16** | 0.013702 | 3.217751 |
| **17** | 0.013702 | 3.217778 |
| **18** | 0.013702 | 3.217778 |
| **19** | 0.013702 | 3.217778 |
| **20** | 0.013702 | 3.217778 |
| **21** | 0.013702 | 3.217778 |
| **22** | 0.01885 | 4.421203 |
| **23** | 0.018866 | 4.426617 |
| **24** | 0.018866 | 4.426666 |
| **25** | 0.018866 | 4.426667 |
| **26** | 0.018866 | 4.426667 |
| **27** | 0.018866 | 4.426667 |
| **28** | 0.018866 | 4.426667 |
| **29** | 0.024018 | 5.628632 |
| **30** | 0.024039 | 5.635476 |
| **31** | 0.024039 | 5.635555 |
| **32** | 0.024039 | 5.635556 |
| **33** | 0.024039 | 5.635556 |
| **34** | 0.024039 | 5.635556 |
| **35** | 0.024039 | 5.635556 |
| **36** | 0.024039 | 5.635556 |
| **37** | 0.029196 | 6.836073 |
| **38** | 0.029221 | 6.844328 |
| **39** | 0.029221 | 6.844443 |
| **40** | 0.029221 | 6.844444 |
| **41** | 0.029221 | 6.844444 |
| **42** | 0.029221 | 6.844444 |
| **43** | 0.029221 | 6.844444 |
| **44** | 0.029221 | 6.844444 |
| **45** | 0.034382 | 8.043529 |
| **46** | 0.034411 | 8.053174 |
| **47** | 0.034412 | 8.053331 |
| **48** | 0.034412 | 8.053333 |
| **49** | 0.034412 | 8.053333 |
| **50** | 0.034412 | 8.053333 |
| **51** | 0.034412 | 8.053333 |
| **52** | 0.034412 | 8.053333 |
| **53** | 0.039577 | 9.250997 |
| **54** | 0.039611 | 9.262014 |
| **55** | 0.039612 | 9.262218 |
| **56** | 0.039612 | 9.262222 |
| **57** | 0.039612 | 9.262222 |
| **58** | 0.039612 | 9.262222 |
| **59** | 0.039612 | 9.262222 |
| **60** | 0.039612 | 9.262222 |
| **61** | 0.044782 | 10.45848 |
| **62** | 0.04482 | 10.47085 |
| **63** | 0.04482 | 10.47111 |
| **64** | 0.044821 | 10.47111 |
| **65** | 0.044821 | 10.47111 |
| **66** | 0.044821 | 10.47111 |
| **67** | 0.044821 | 10.47111 |
| **68** | 0.044821 | 10.47111 |
| **69** | 0.044821 | 10.47111 |
| **70** | 0.049995 | 11.66598 |
| **71** | 0.050037 | 11.67967 |

**Problem 4(b):**

|  |  |  |
| --- | --- | --- |
| **Iteration** | **Strain (2εxy)** | **Stress (σxy)** |
| **1** | 0 | 0 |
| **2** | 0.005666 | 0.509976 |
| **3** | 0.005676 | 0.510803 |
| **4** | 0.005676 | 0.510808 |
| **5** | 0.005676 | 0.510808 |
| **6** | 0.005676 | 0.510808 |
| **7** | 0.005676 | 0.510808 |
| **8** | 0.005676 | 0.510808 |
| **9** | 0.005676 | 0.510808 |
| **10** | 0.012928 | 1.163506 |
| **11** | 0.012954 | 1.165891 |
| **12** | 0.012955 | 1.165916 |
| **13** | 0.012955 | 1.165917 |
| **14** | 0.012955 | 1.165917 |
| **15** | 0.012955 | 1.165917 |
| **16** | 0.012955 | 1.165917 |
| **17** | 0.012955 | 1.165917 |
| **18** | 0.012955 | 1.165917 |
| **19** | 0.012955 | 1.165917 |
| **20** | 0.020222 | 1.819968 |
| **21** | 0.020263 | 1.823654 |
| **22** | 0.020263 | 1.823708 |
| **23** | 0.020263 | 1.823711 |
| **24** | 0.020263 | 1.823711 |
| **25** | 0.020263 | 1.823711 |
| **26** | 0.020263 | 1.823711 |
| **27** | 0.020263 | 1.823711 |
| **28** | 0.020263 | 1.823711 |
| **29** | 0.020263 | 1.823711 |
| **30** | 0.020263 | 1.823711 |
| **31** | 0.027546 | 2.479108 |
| **32** | 0.027601 | 2.484073 |
| **33** | 0.027602 | 2.48416 |
| **34** | 0.027602 | 2.484168 |
| **35** | 0.027602 | 2.484168 |
| **36** | 0.027602 | 2.484168 |
| **37** | 0.027602 | 2.484168 |
| **38** | 0.027602 | 2.484168 |
| **39** | 0.027602 | 2.484168 |
| **40** | 0.027602 | 2.484168 |
| **41** | 0.027602 | 2.484168 |
| **42** | 0.027602 | 2.484168 |
| **43** | 0.034899 | 3.140903 |
| **44** | 0.034968 | 3.147126 |
| **45** | 0.034969 | 3.147248 |
| **46** | 0.03497 | 3.147262 |
| **47** | 0.03497 | 3.147263 |
| **48** | 0.03497 | 3.147263 |
| **49** | 0.03497 | 3.147263 |
| **50** | 0.03497 | 3.147263 |
| **51** | 0.03497 | 3.147263 |
| **52** | 0.03497 | 3.147263 |
| **53** | 0.03497 | 3.147263 |
| **54** | 0.03497 | 3.147263 |
| **55** | 0.042281 | 3.805327 |
| **56** | 0.042364 | 3.812792 |
| **57** | 0.042366 | 3.812945 |
| **58** | 0.042366 | 3.812967 |
| **59** | 0.042366 | 3.812968 |
| **60** | 0.042366 | 3.812968 |
| **61** | 0.042366 | 3.812968 |
| **62** | 0.042366 | 3.812968 |
| **63** | 0.042366 | 3.812968 |
| **64** | 0.042366 | 3.812968 |
| **65** | 0.042366 | 3.812968 |
| **66** | 0.042366 | 3.812968 |
| **67** | 0.042366 | 3.812968 |
| **68** | 0.049693 | 4.472354 |
| **69** | 0.049789 | 4.481045 |
| **70** | 0.049791 | 4.481225 |
| **71** | 0.049792 | 4.481256 |
| **72** | 0.049792 | 4.481258 |
| **73** | 0.049792 | 4.481258 |
| **74** | 0.049792 | 4.481258 |
| **75** | 0.049792 | 4.481258 |
| **76** | 0.049792 | 4.481258 |
| **77** | 0.049792 | 4.481258 |
| **78** | 0.049792 | 4.481258 |
| **79** | 0.049792 | 4.481258 |
| **80** | 0.049792 | 4.481258 |
| **81** | 0.057133 | 5.141957 |
| **82** | 0.057243 | 5.151863 |
| **83** | 0.057245 | 5.152061 |
| **84** | 0.057246 | 5.152103 |
| **85** | 0.057246 | 5.152106 |
| **86** | 0.057246 | 5.152106 |
| **87** | 0.057246 | 5.152106 |
| **88** | 0.057246 | 5.152106 |
| **89** | 0.057246 | 5.152106 |
| **90** | 0.057246 | 5.152106 |
| **91** | 0.057246 | 5.152106 |
| **92** | 0.057246 | 5.152106 |
| **93** | 0.057246 | 5.152106 |
| **94** | 0.057246 | 5.152106 |
| **95** | 0.064601 | 5.814109 |
| **96** | 0.064725 | 5.825221 |
| **97** | 0.064727 | 5.825428 |
| **98** | 0.064728 | 5.825482 |
| **99** | 0.064728 | 5.825486 |
| **100** | 0.064728 | 5.825486 |
| **101** | 0.064728 | 5.825486 |
| **102** | 0.064728 | 5.825486 |
| **103** | 0.064728 | 5.825486 |
| **104** | 0.064728 | 5.825486 |
| **105** | 0.064728 | 5.825486 |
| **106** | 0.064728 | 5.825486 |
| **107** | 0.064728 | 5.825486 |
| **108** | 0.064728 | 5.825486 |
| **109** | 0.072098 | 6.488784 |
| **110** | 0.072234 | 6.501096 |
| **111** | 0.072237 | 6.5013 |
| **112** | 0.072237 | 6.501368 |
| **113** | 0.072237 | 6.501373 |
| **114** | 0.072237 | 6.501374 |
| **115** | 0.072237 | 6.501374 |
| **116** | 0.072237 | 6.501374 |
| **117** | 0.072237 | 6.501374 |
| **118** | 0.072237 | 6.501374 |
| **119** | 0.072237 | 6.501374 |
| **120** | 0.072237 | 6.501374 |
| **121** | 0.072237 | 6.501374 |