Appendix C

ISLAB2000 Graphical Results for the Comparison with Westergaard's Solution

Problem 1 (Example 4.1 page 172 in the textbook)

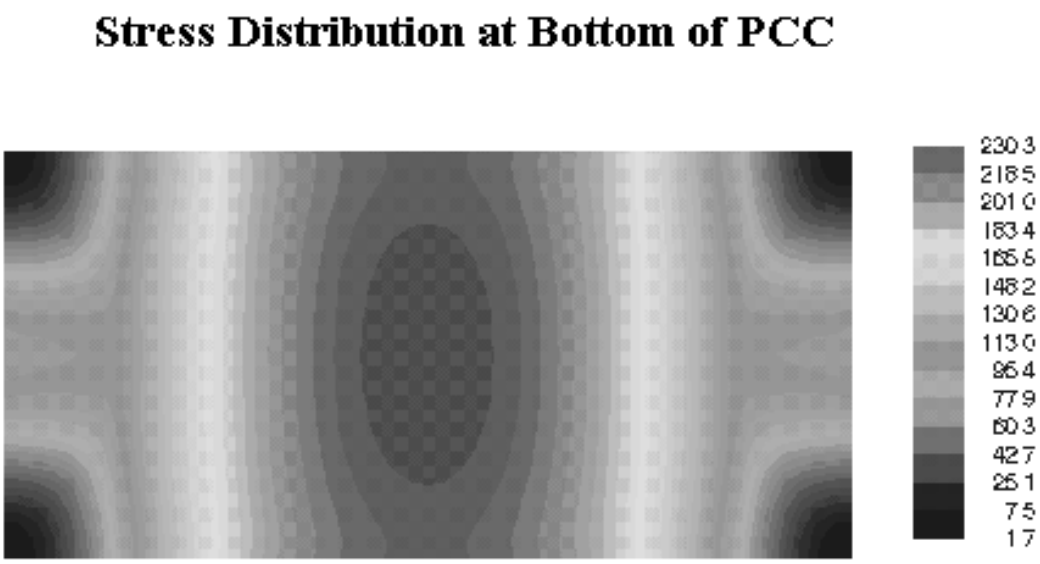

Figure C-1: Graphical stress results using ISLAB2000 (fine mesh)

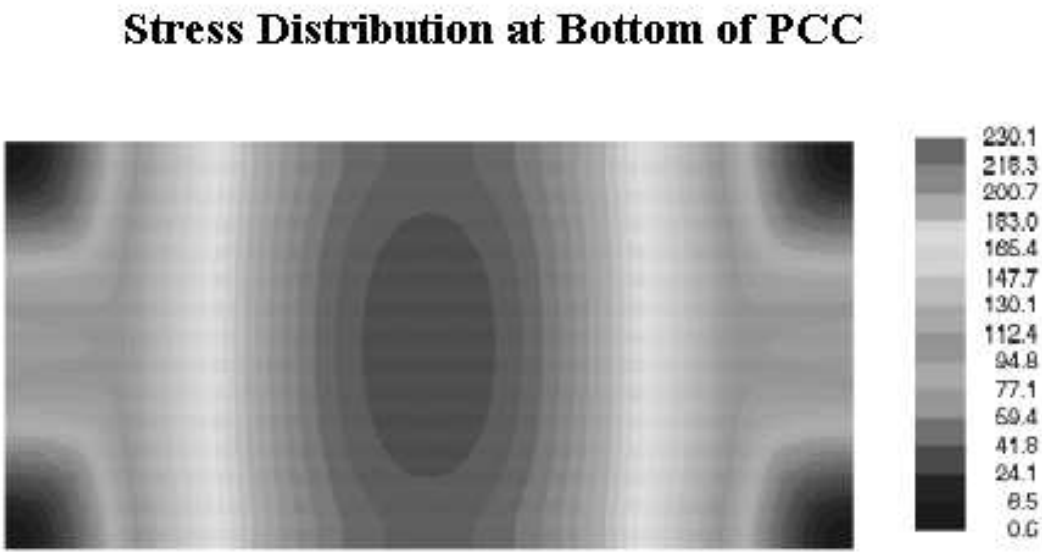

Figure C-2: Graphical stress results using ISLAB2000 (medium mesh)

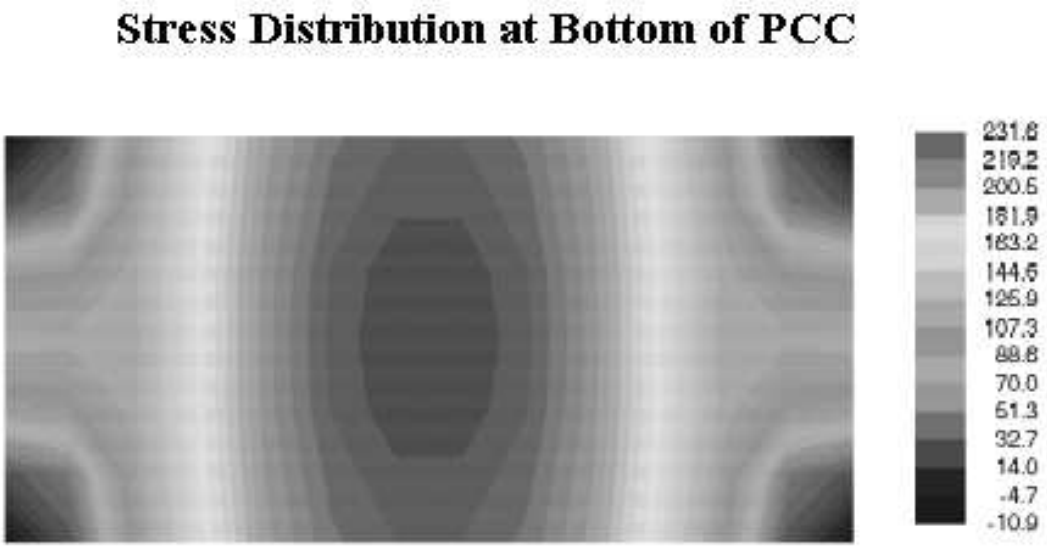

Figure C-3: Graphical stress results using ISLAB2000 (coarse mesh)

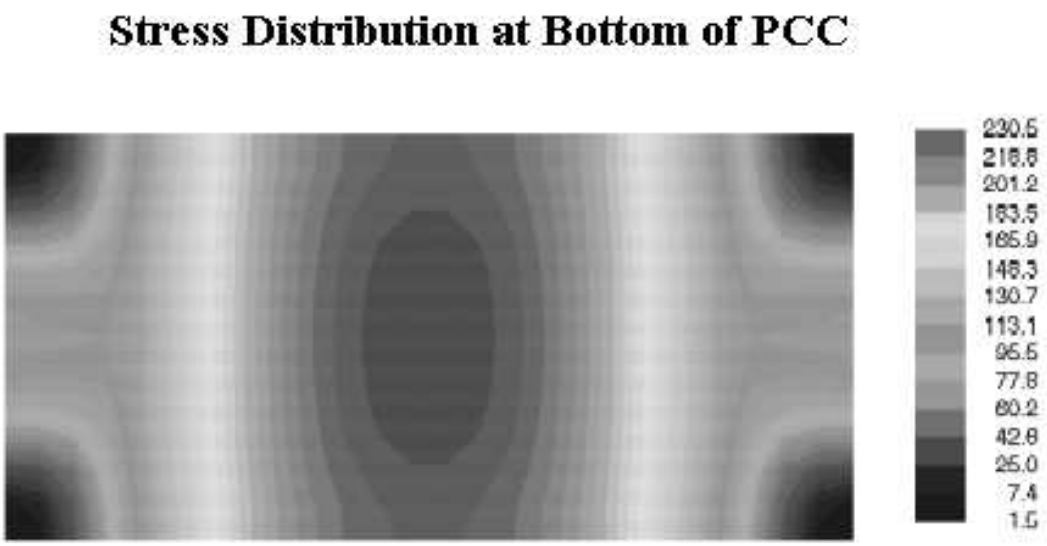

Figure C-4: Graphical stress results using ISLAB2000 (manual mesh)

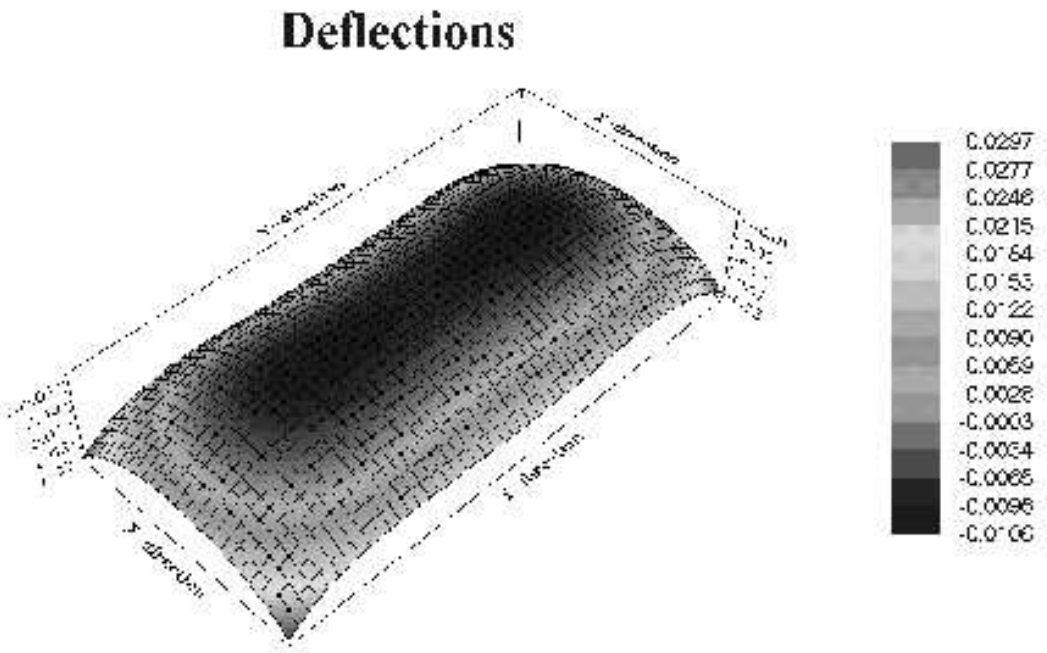

Figure C-7: Graphical deflection results using ISLAB2000 (fine mesh)

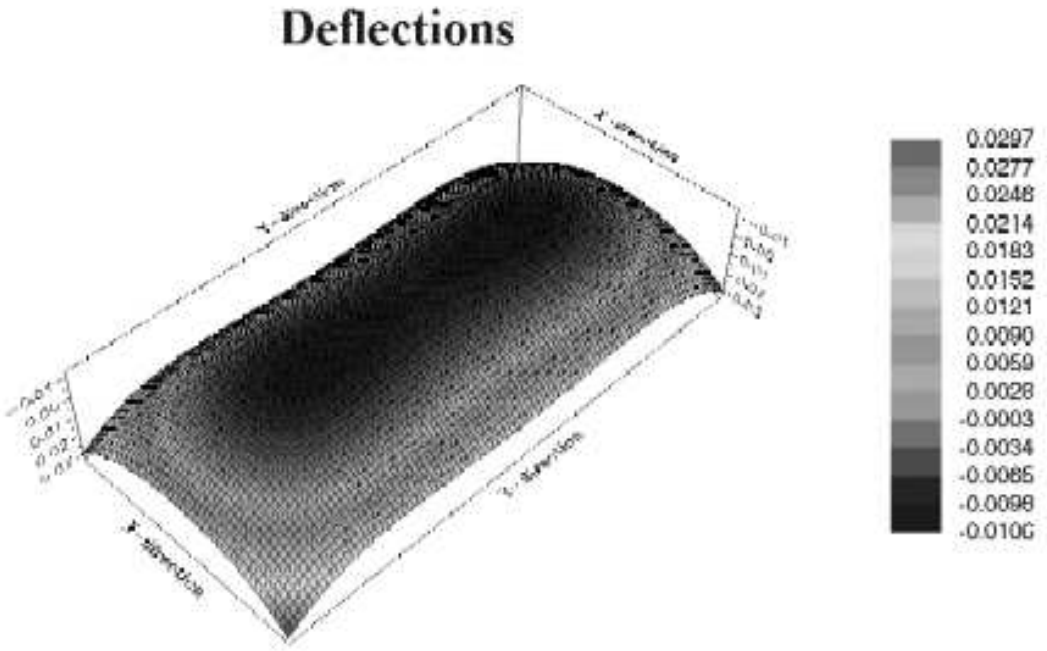

Figure C-8: Graphical deflection results using ISLAB2000 (medium mesh)

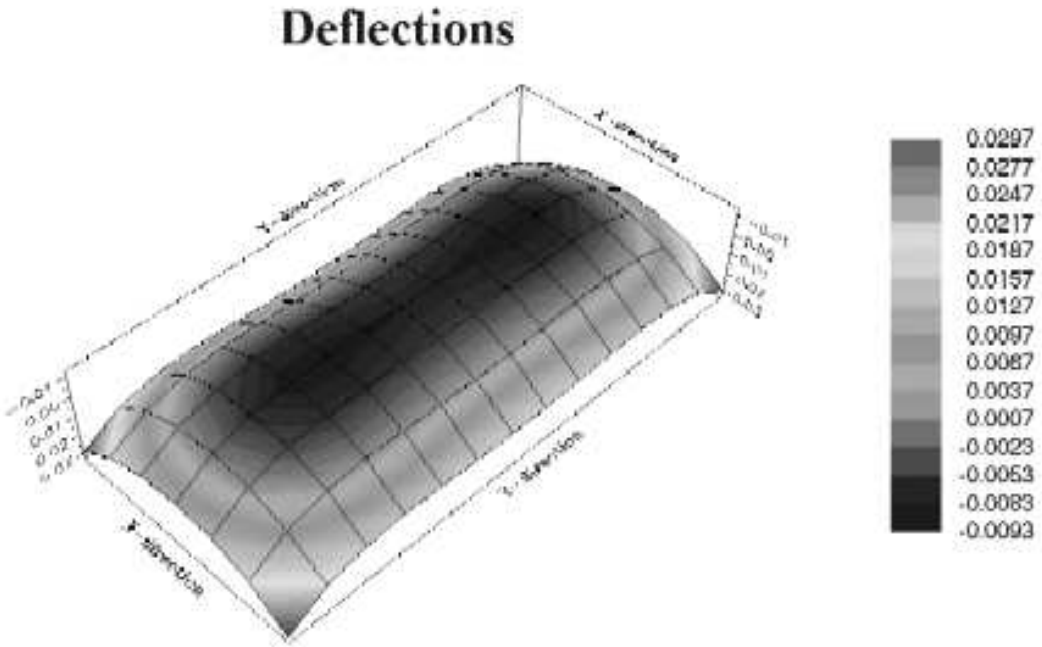

Figure C-9: Graphical deflection results using ISLAB2000 (coarse mesh)

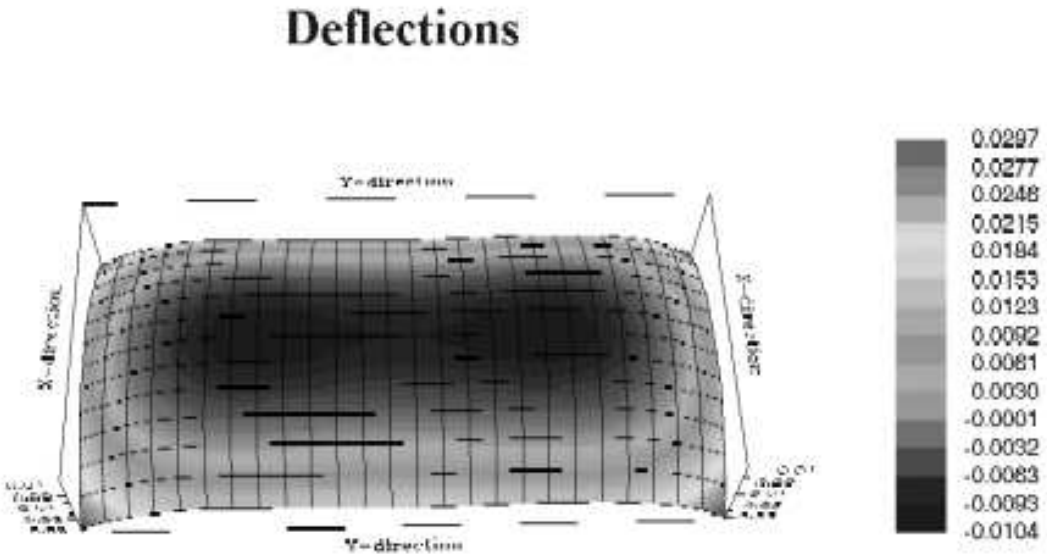

Figure C-10: Graphical deflection results using ISLAB2000 (manual mesh)

Problem 2 (Example 4.2 page 176 in the textbook)

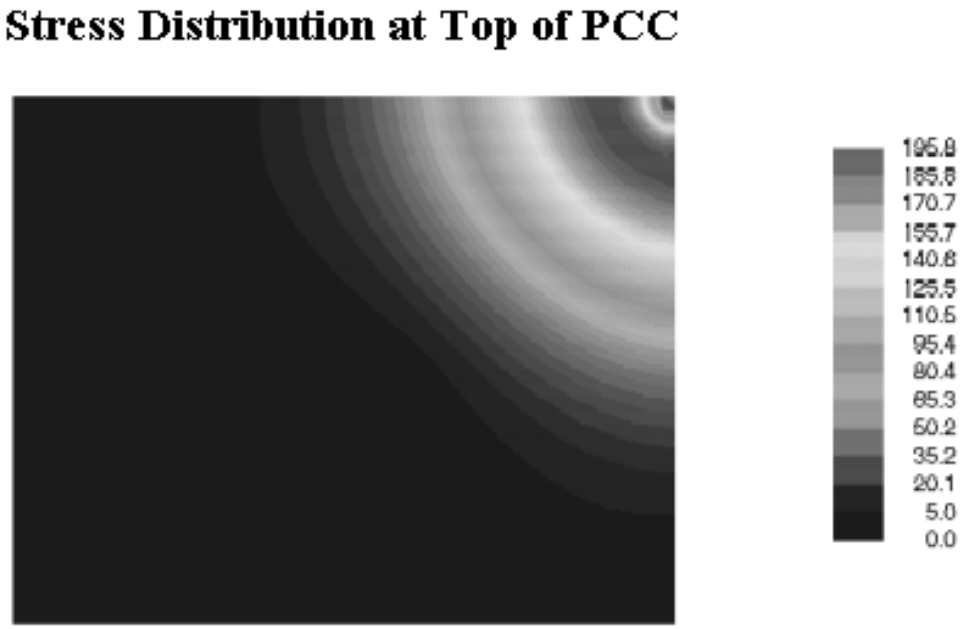

Figure C-13: Graphical stress results using ISLAB2000 (fine mesh)

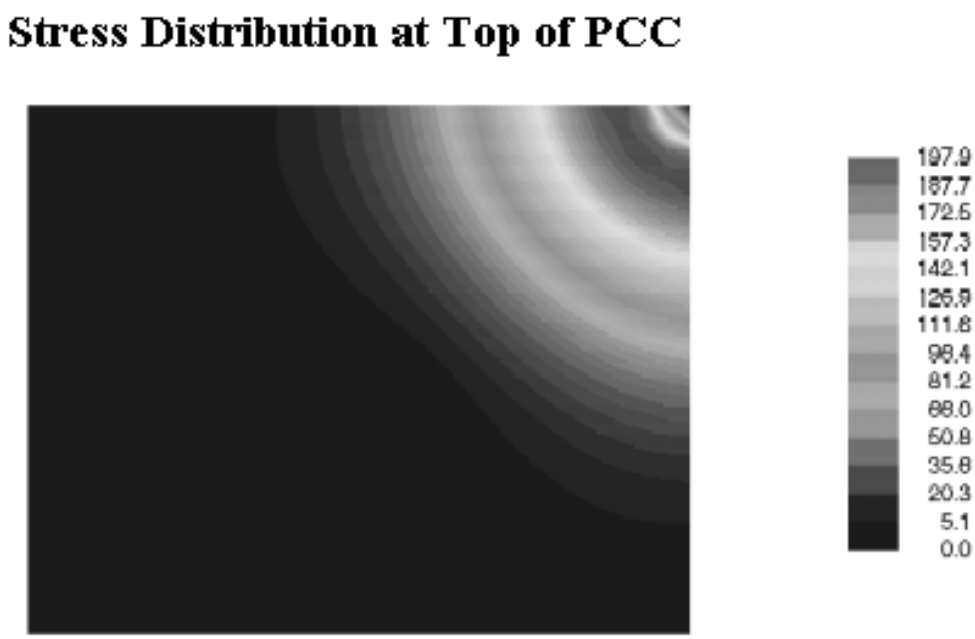

Figure C-14: Graphical stress results using ISLAB2000 (medium mesh)

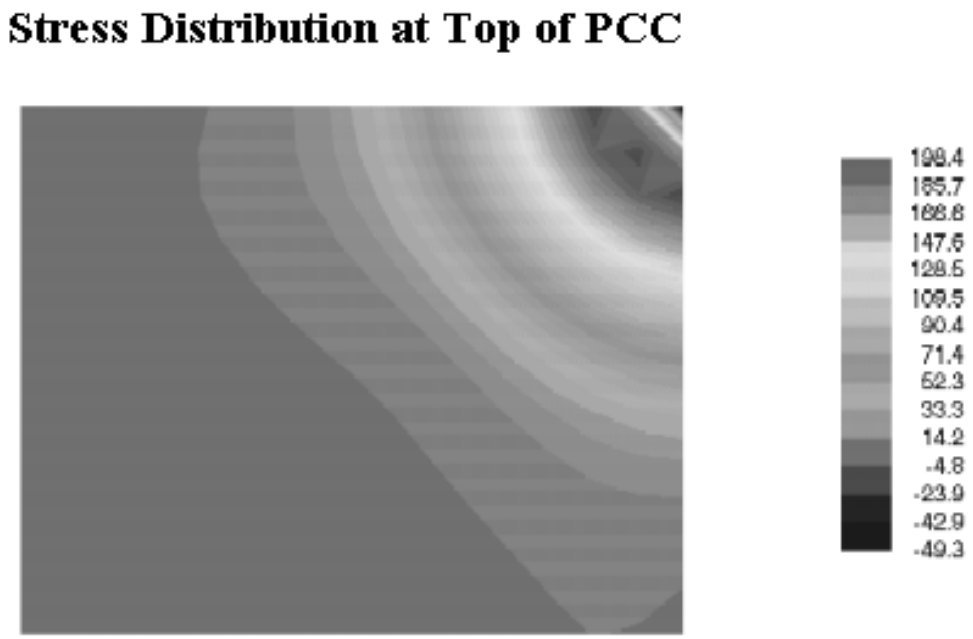

Figure C-15: Graphical stress results using ISLAB2000 (coarse mesh)

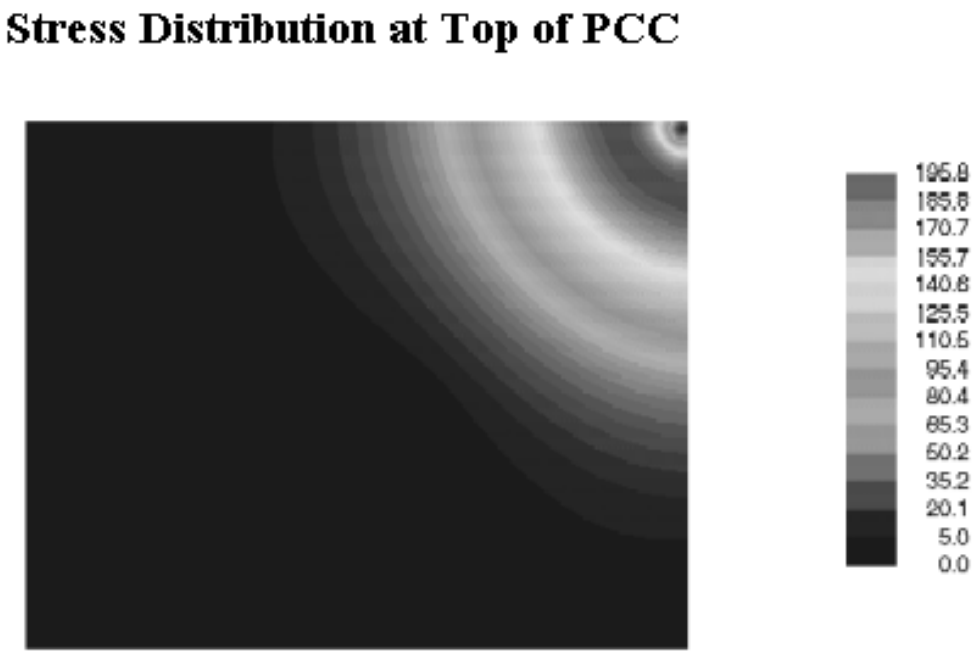

Figure C-16: Graphical stress results using ISLAB2000 (manual mesh)

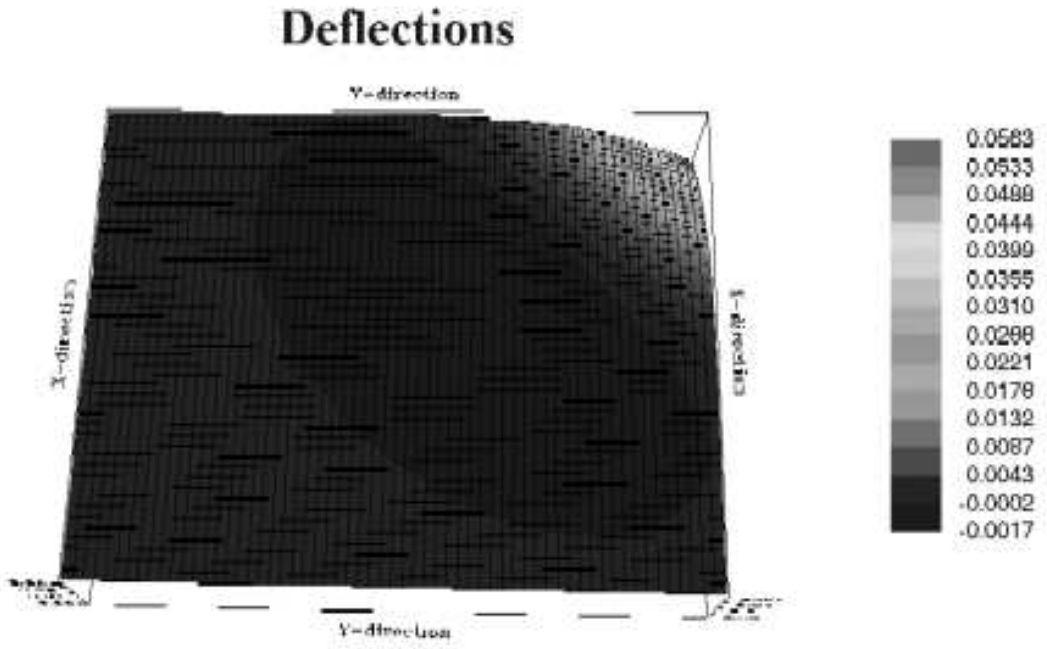

Figure C-19: Graphical deflection results using ISLAB2000 (fine mesh)

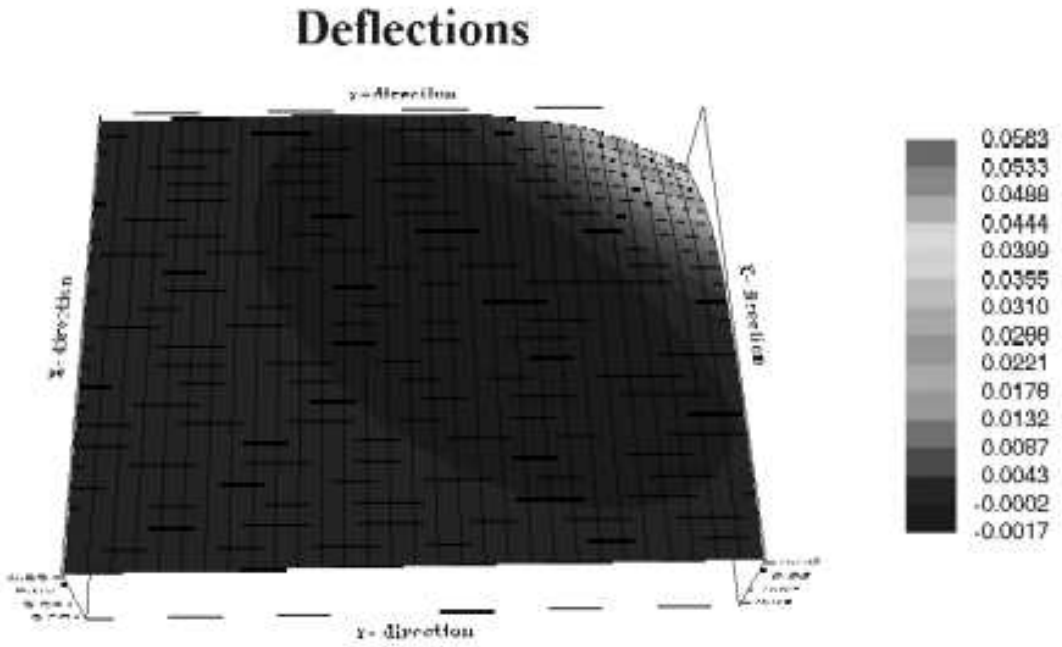

Figure C-20: Graphical deflection results using ISLAB2000 (medium mesh)

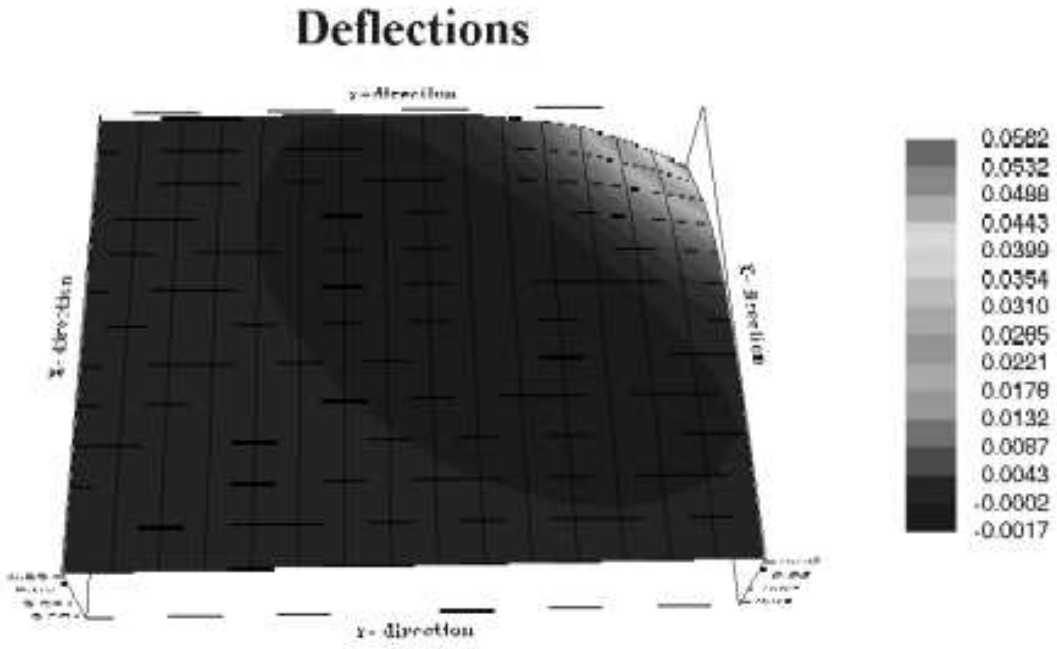

Figure C-21:Graphical deflection results using ISLAB2000 (coarse mesh)

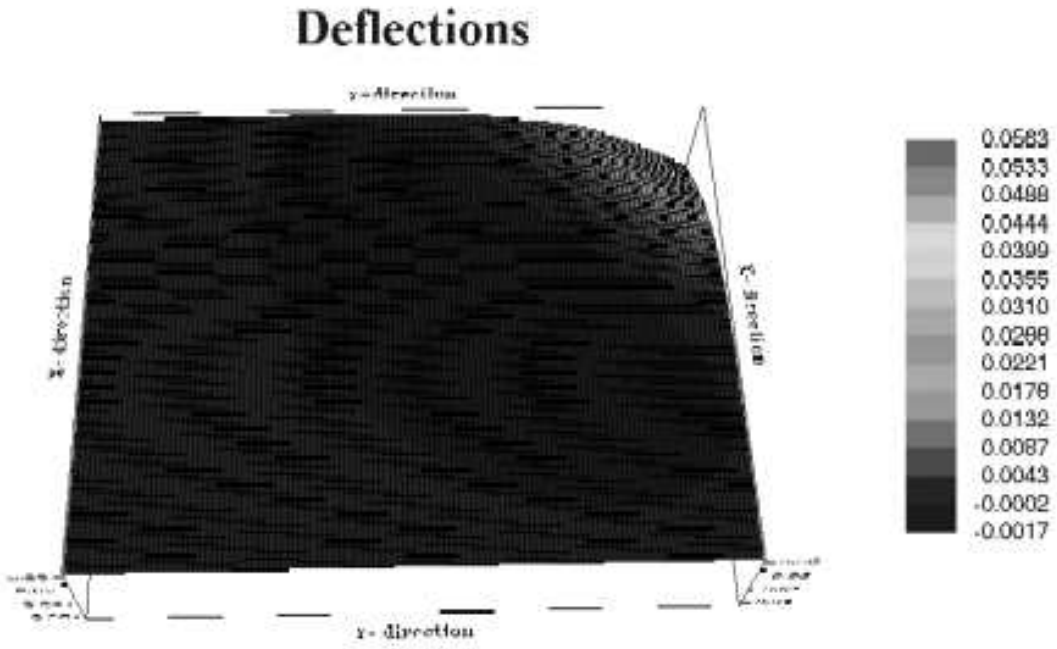

Figure C-22: Graphical deflection results using ISLAB2000 (manual mesh)

Problem 3 (Example 4.3 page 177 in the textbook)

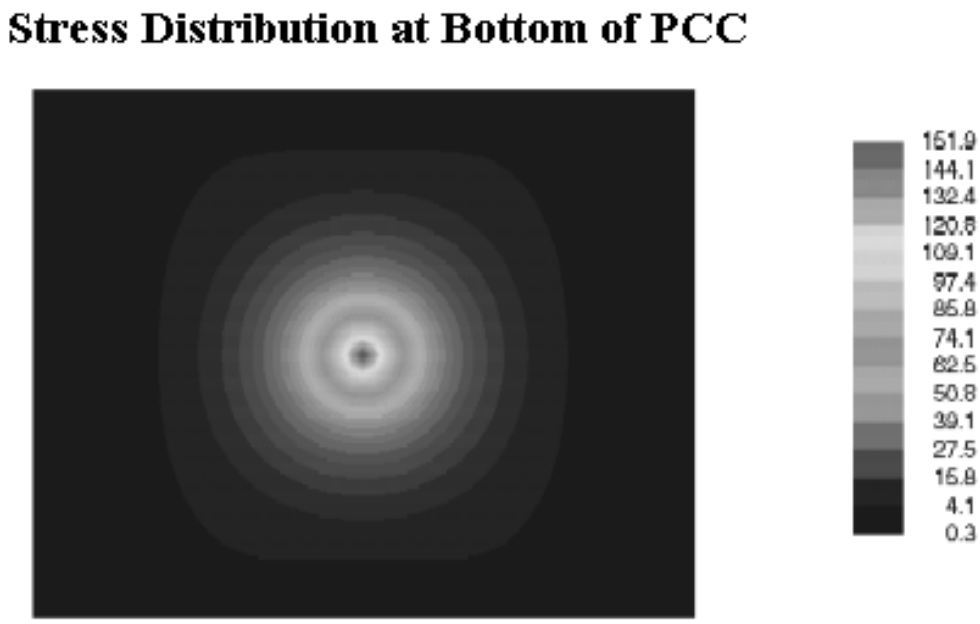

Figure C-25: Graphical stress results using ISLAB2000 (fine mesh)

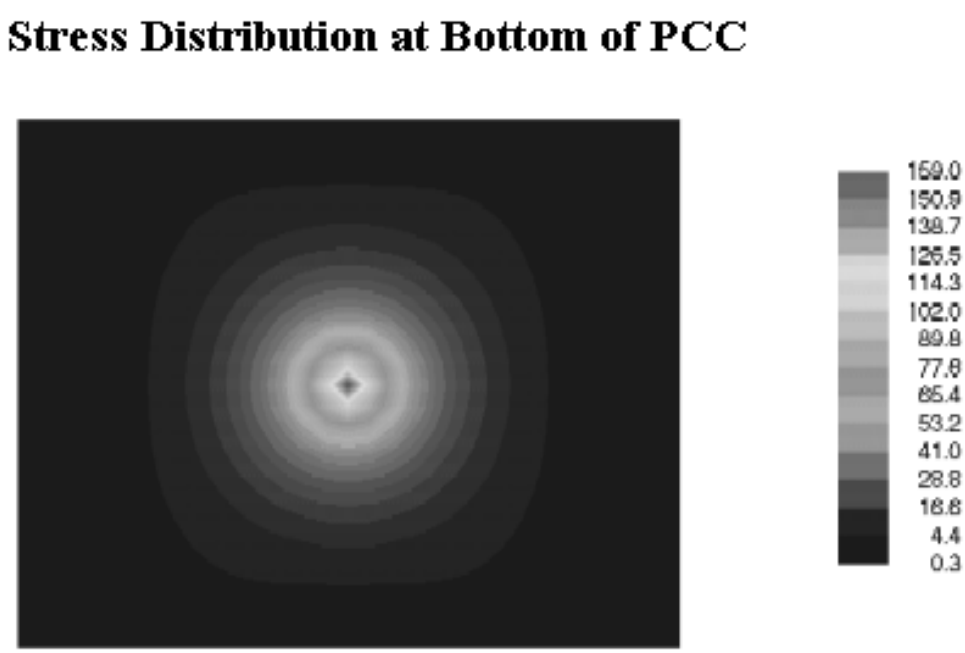

Figure C-26: Graphical stress results using ISLAB2000 (medium mesh)

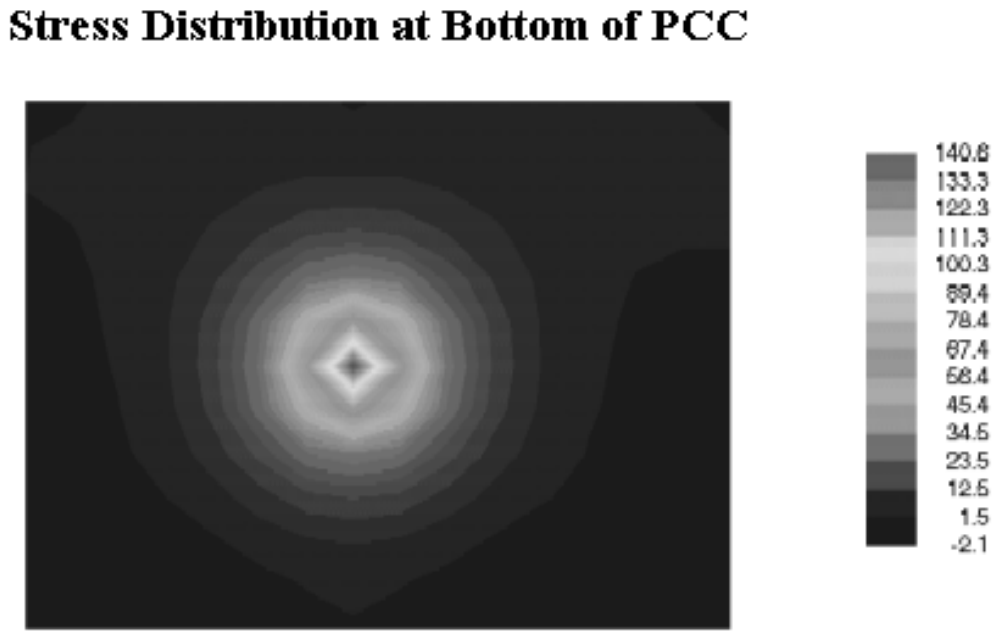

Figure C-27: Graphical stress results using ISLAB2000 (coarse mesh)

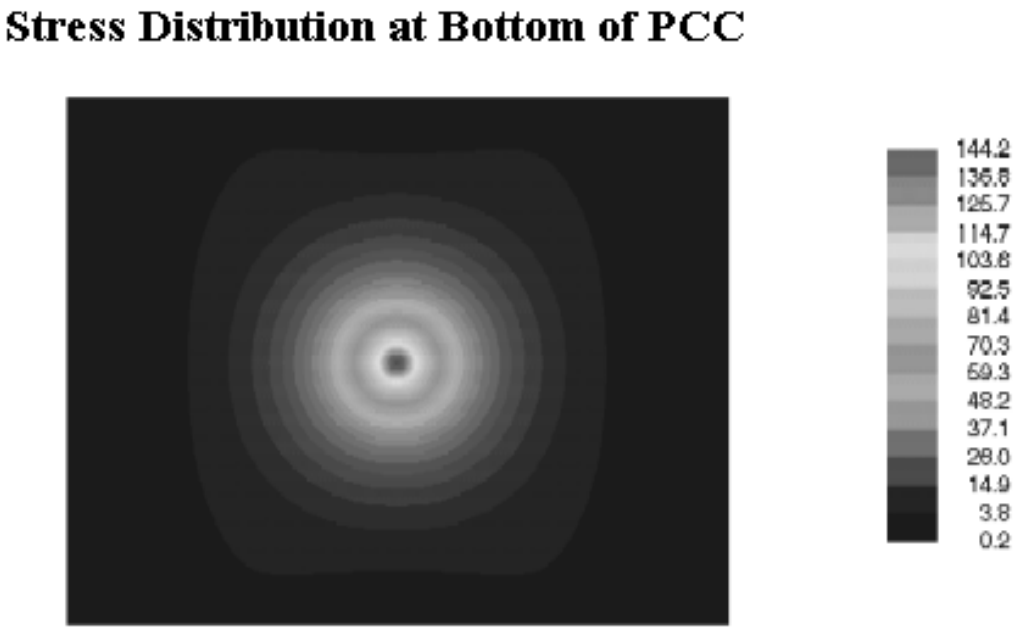

Figure C-28: Graphical stress results using ISLAB2000 (manual mesh)

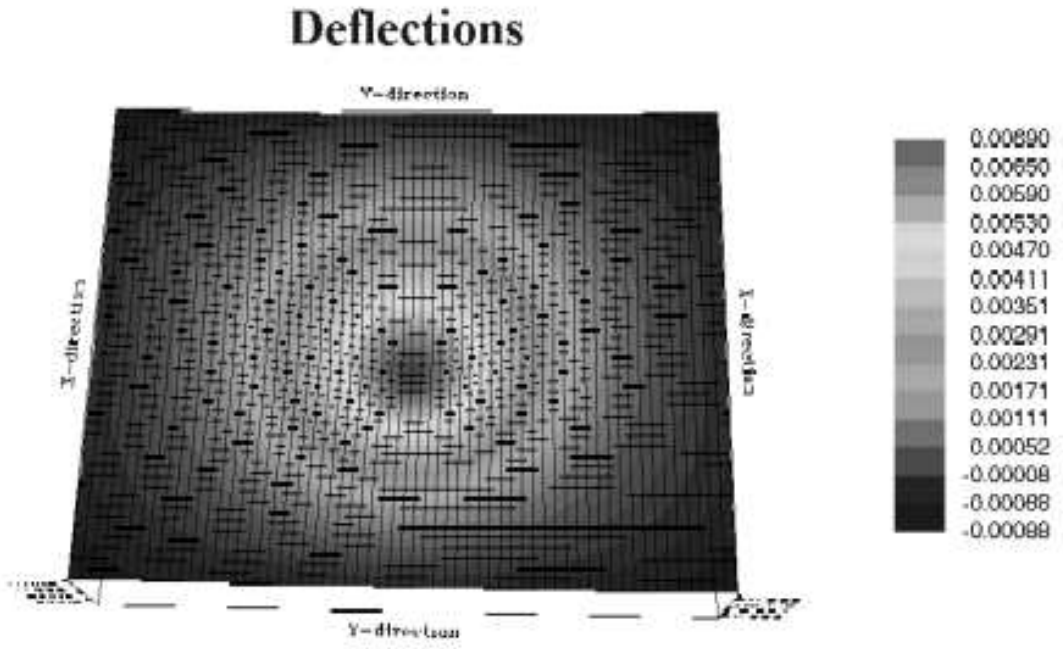

Figure C-31: Graphical deflection results using ISLAB2000 (fine mesh)

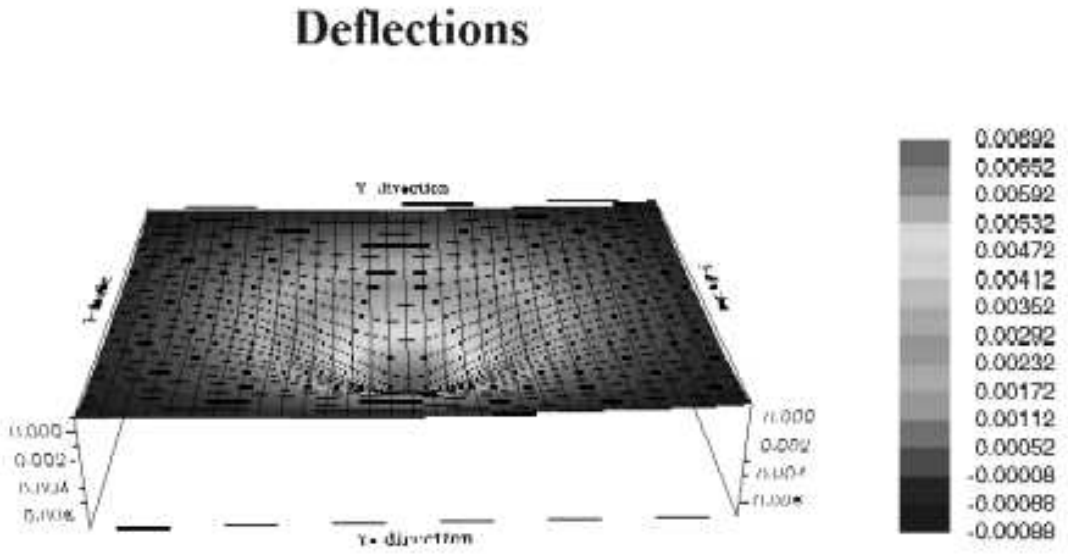

Figure C-32: Graphical deflection results using ISLAB2000 (medium mesh)

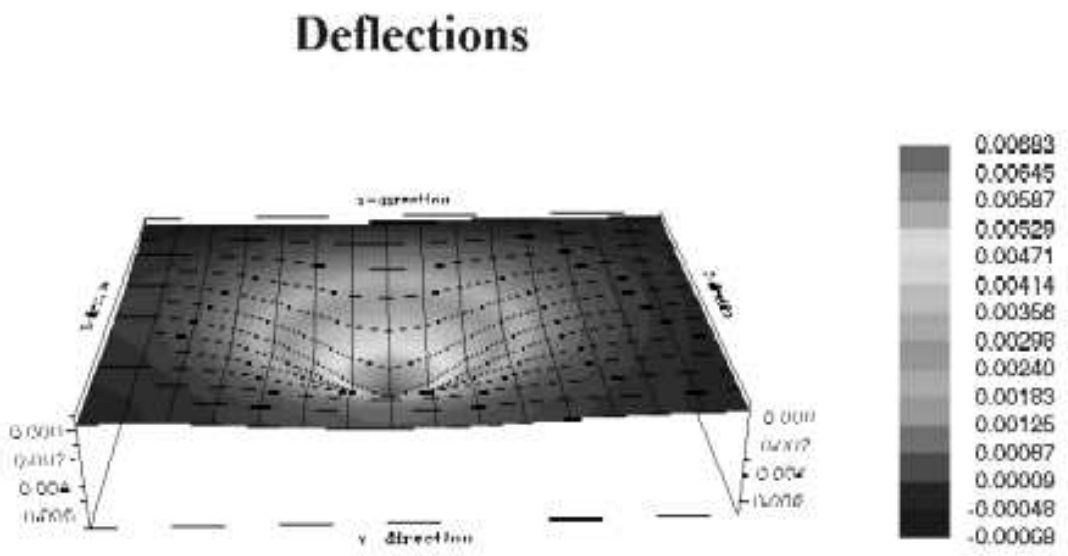

Figure C-33: Graphical deflection results using ISLAB2000 (coarse mesh)

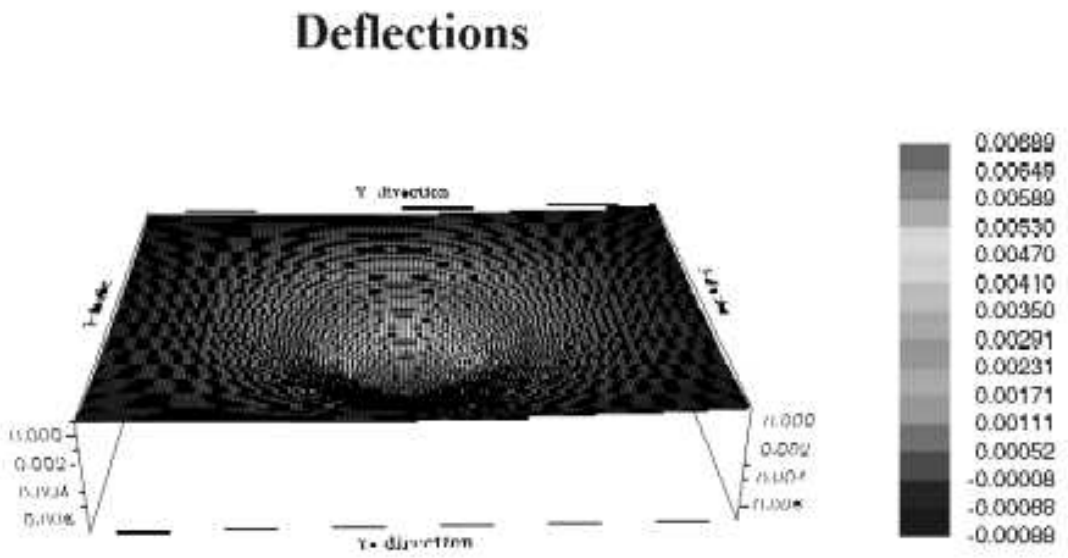

Figure C-34: Graphical deflection results using ISLAB2000 (manual mesh)

Problem 4 (Example 4.4 page 178 in the textbook)

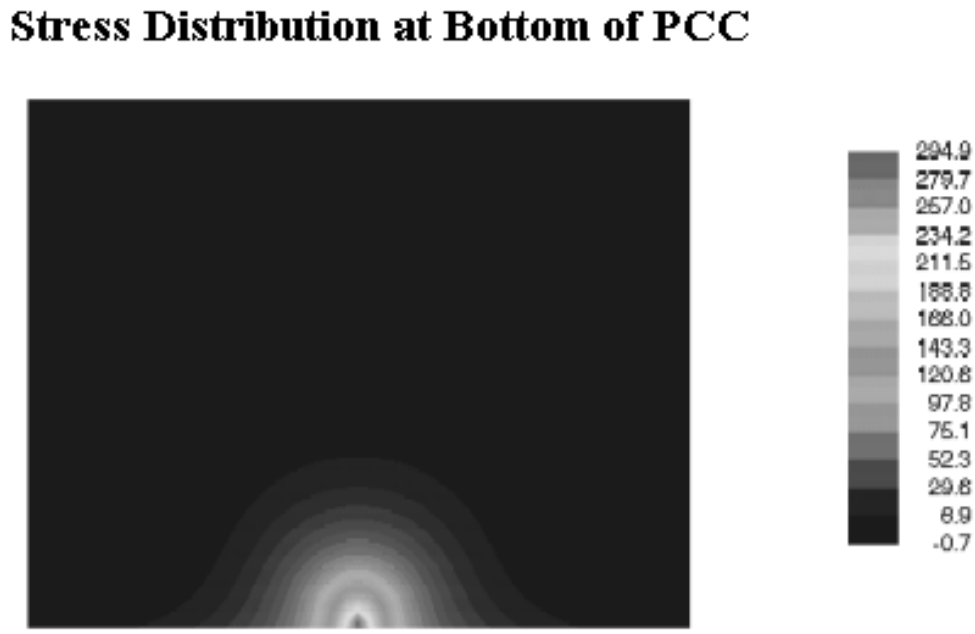

Figure C-37: Graphical stress results using ISLAB2000 (fine mesh)

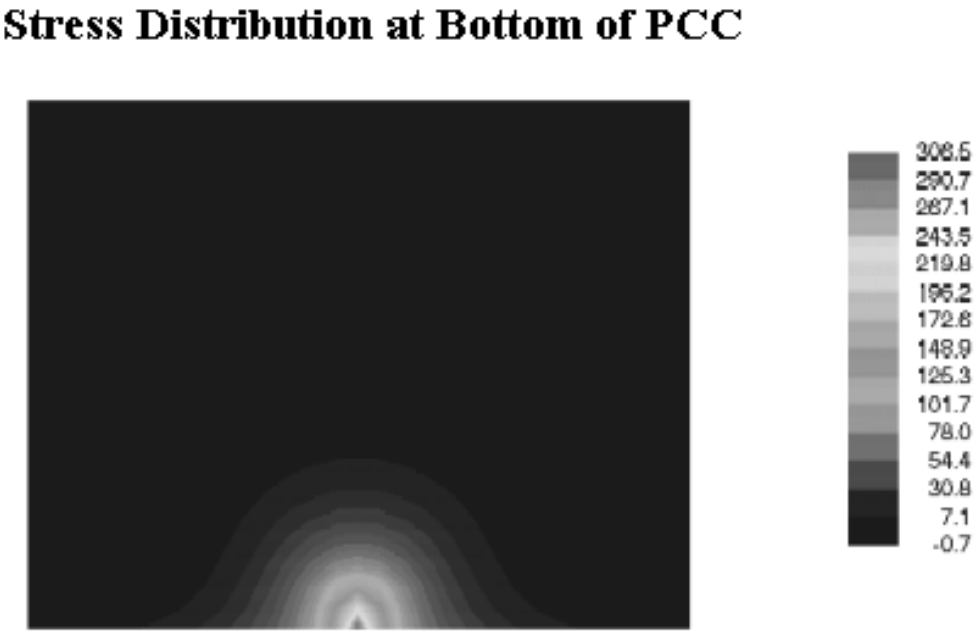

Figure C-38: Graphical stress results using ISLAB2000 (medium mesh)

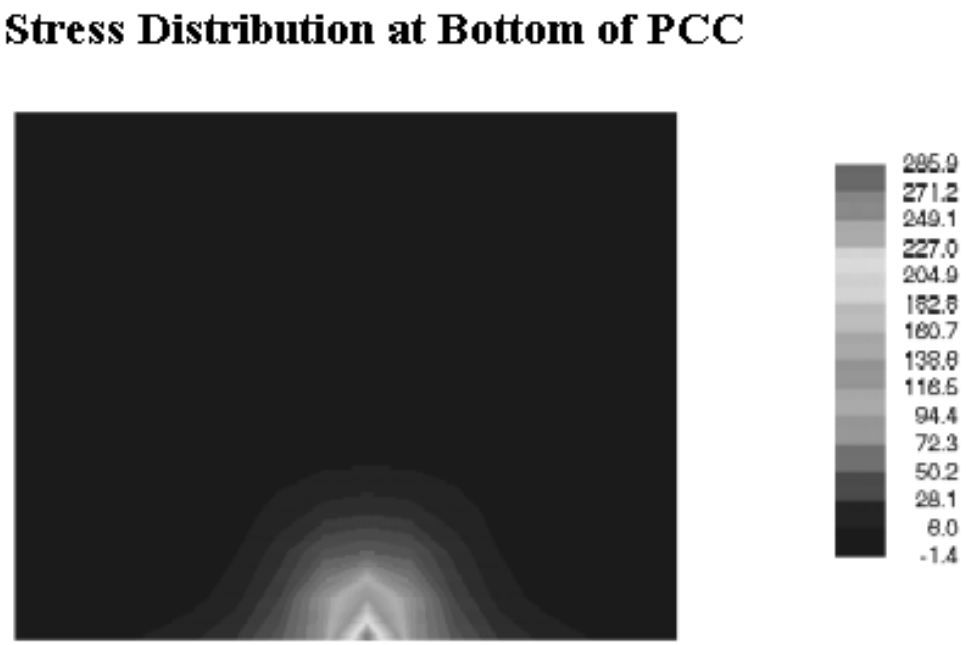

Figure C-39: Graphical stress results using ISLAB2000 (coarse mesh)

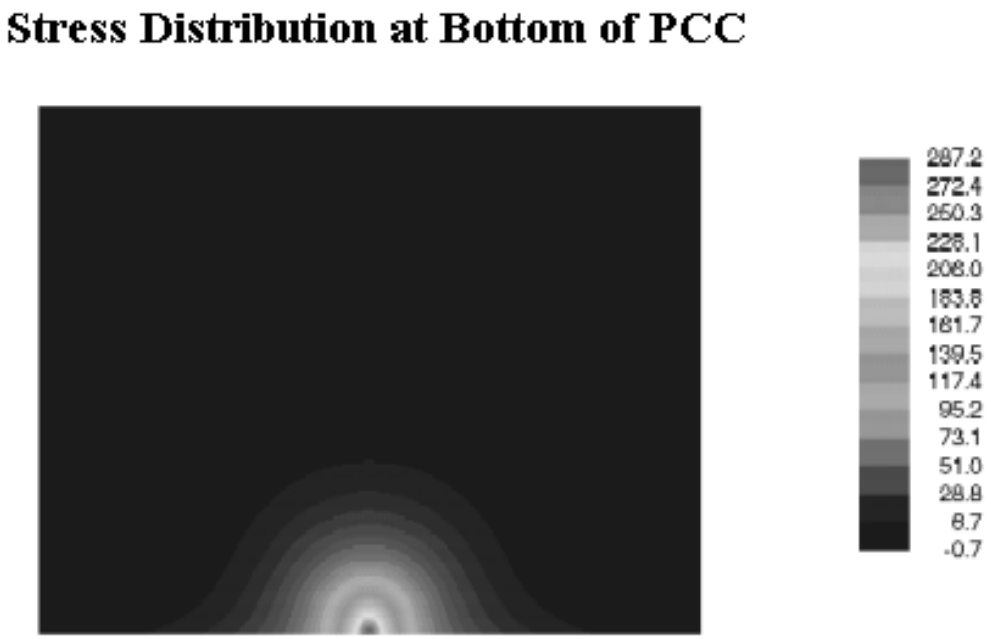

Figure C-40: Graphical stress results using ISLAB2000 (manual mesh)

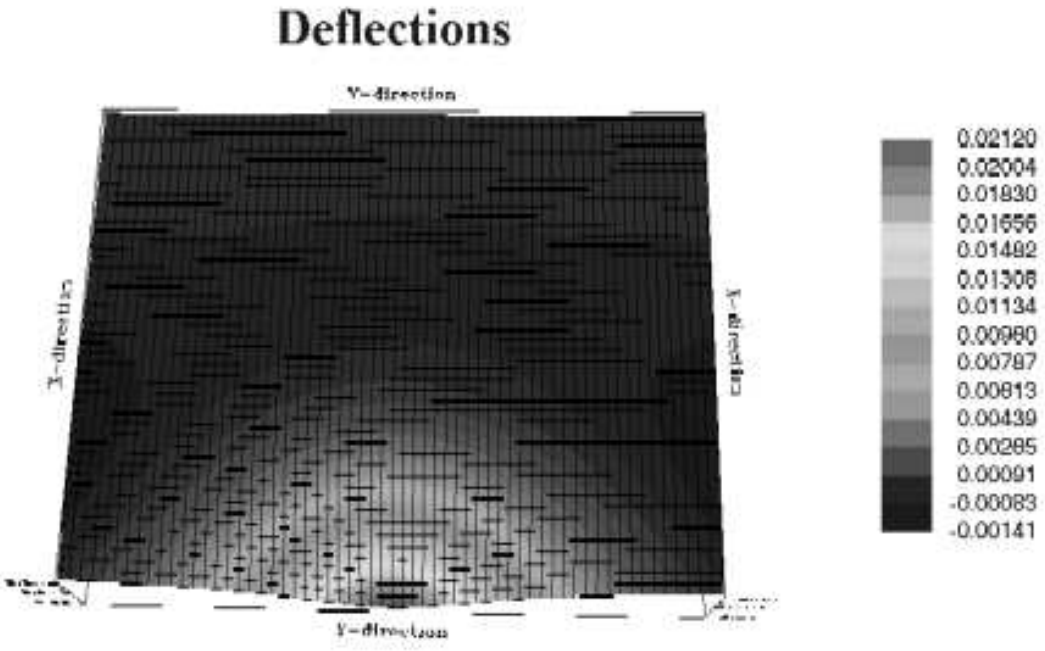

Figure C-43: Graphical deflection results using ISLAB2000 (fine mesh)

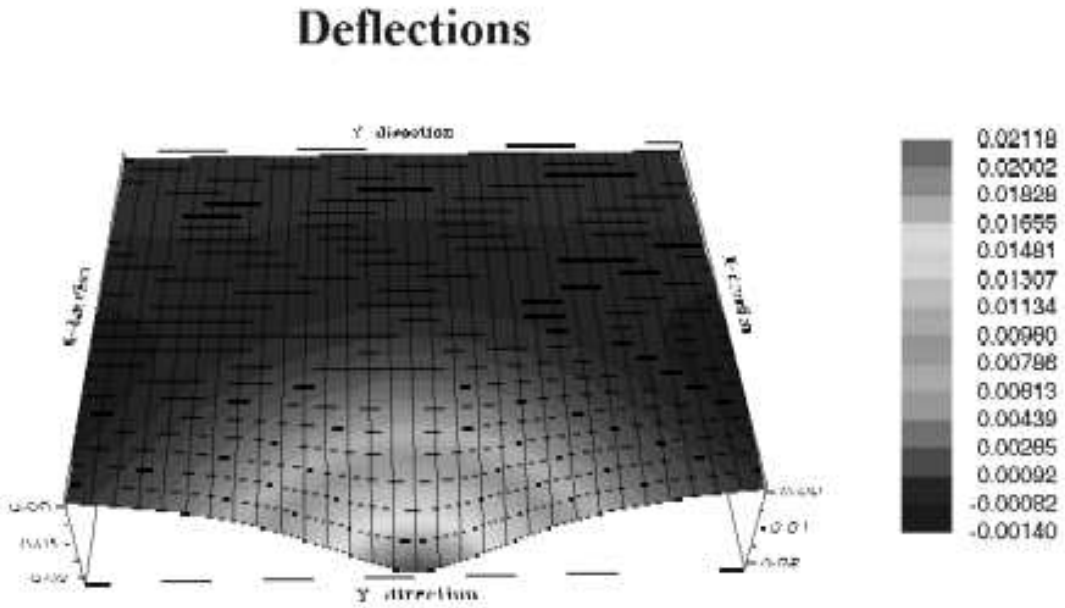

Figure C-44: Graphical deflection results using ISLAB2000 (medium mesh)

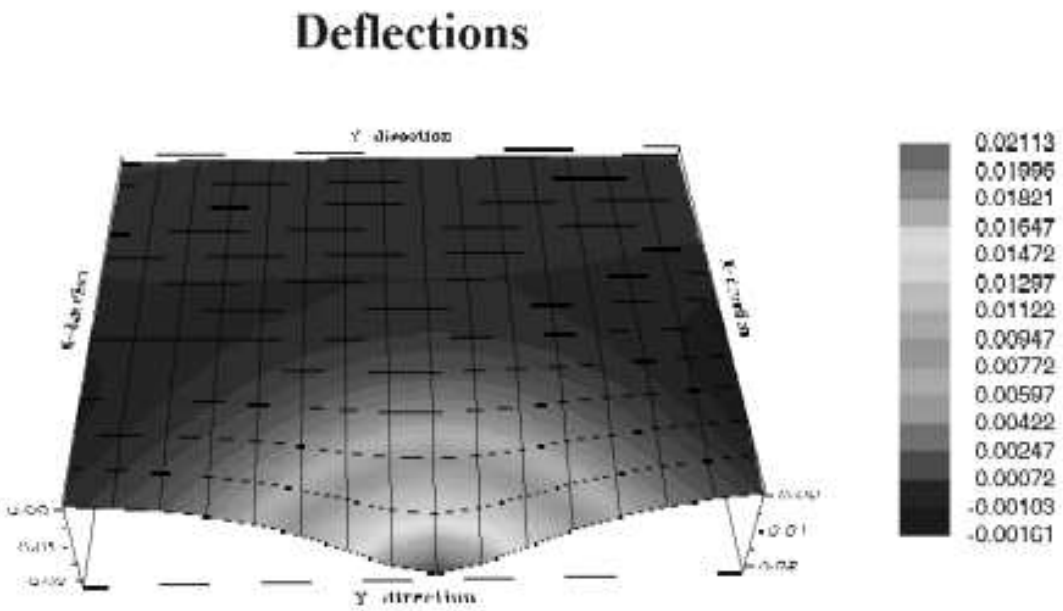

Figure C-45: Graphical deflection results using ISLAB2000 (coarse mesh)

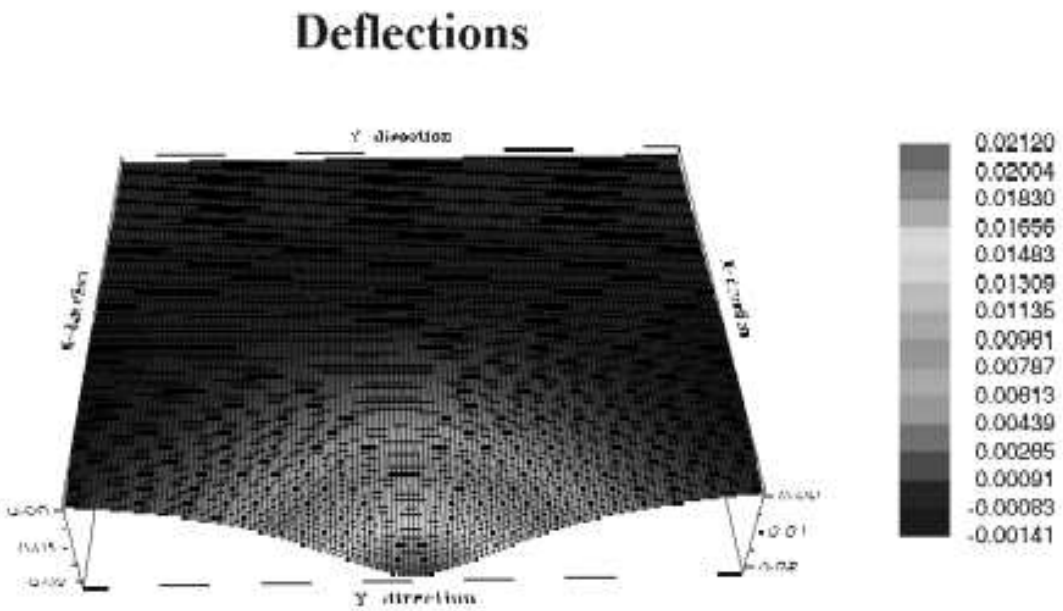

Figure C-46: Graphical deflection results using ISLAB2000 (manual mesh)

Problem 5 (Example 4.5 page 180 in the textbook)

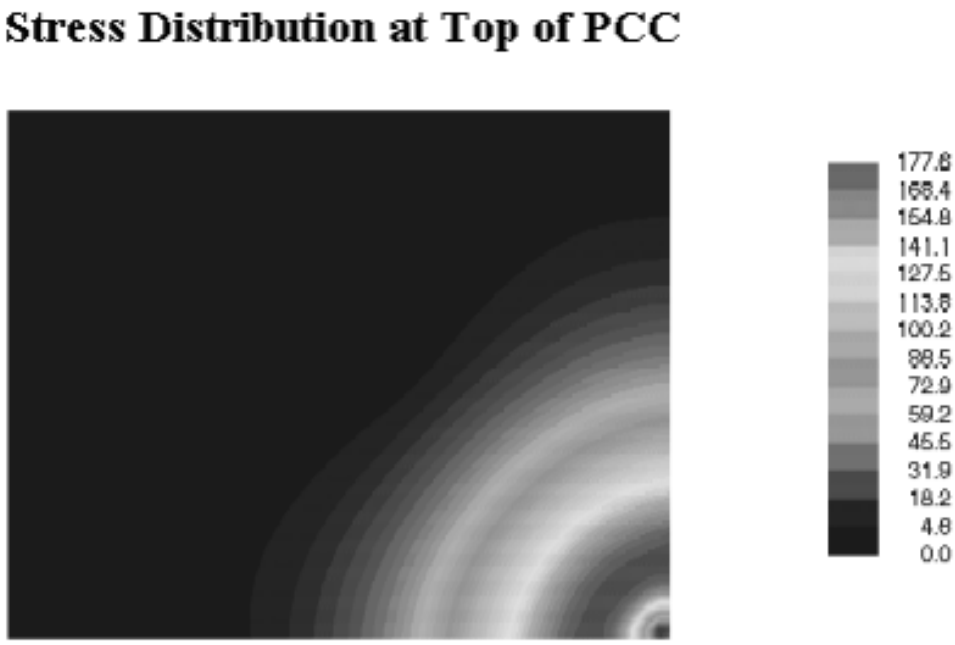

Figure C-49: Graphical stress results using ISLAB2000 (fine mesh)

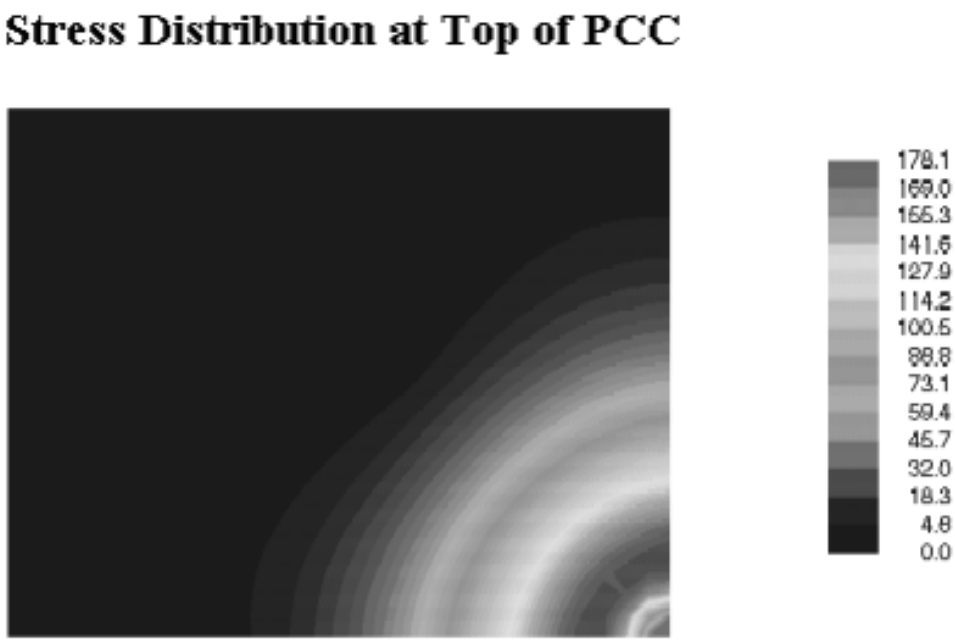

Figure C-50: Graphical stress results using ISLAB2000 (medium mesh)

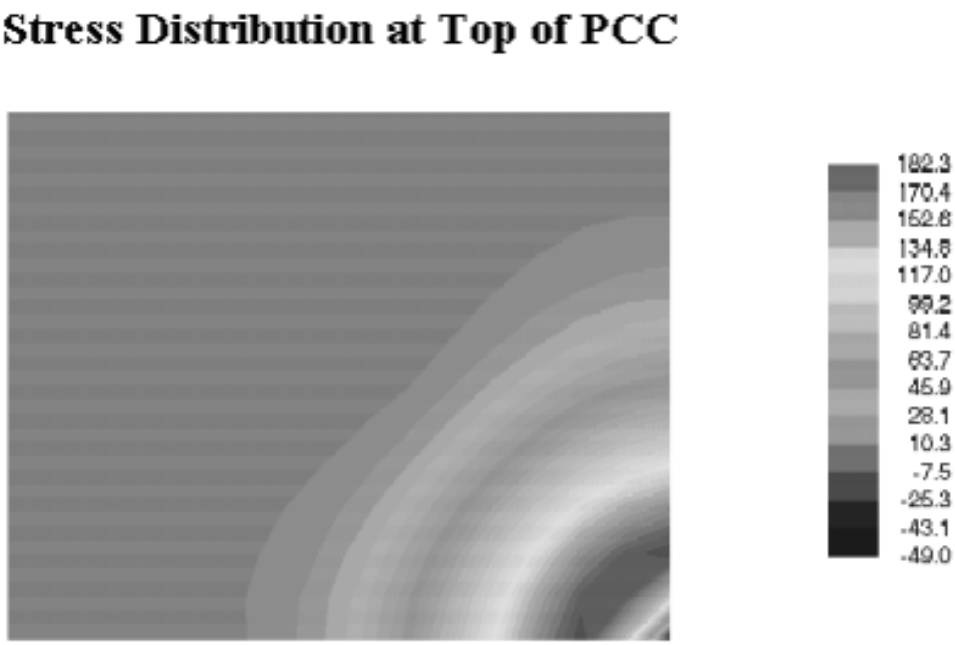

Figure C-51: Graphical stress results using ISLAB2000 (coarse mesh)

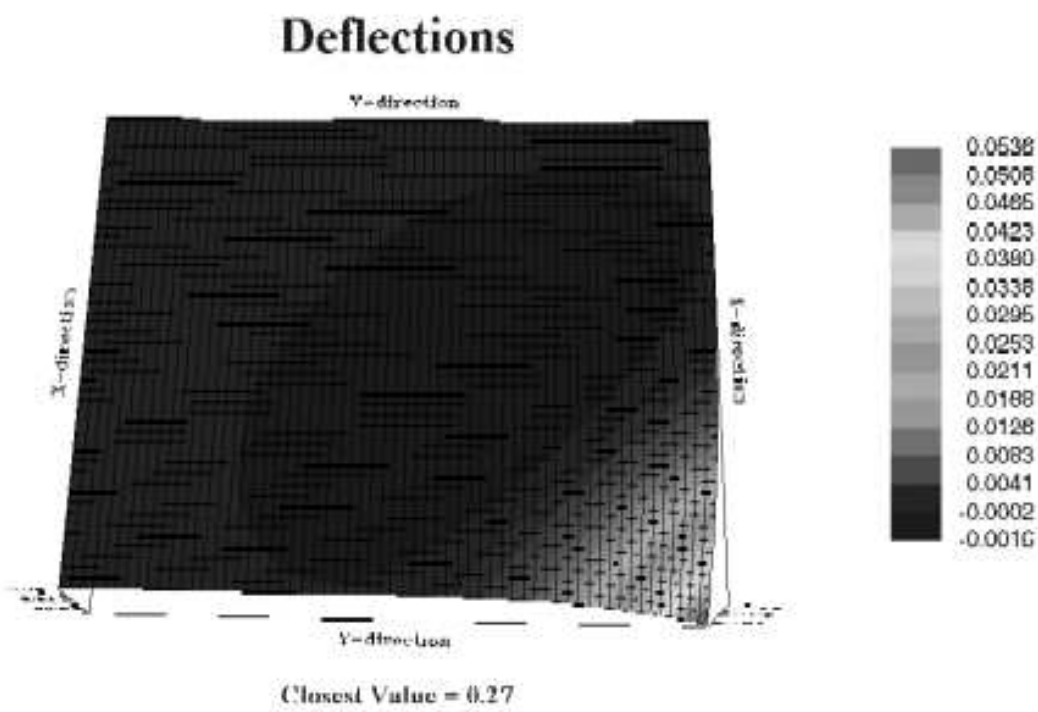

Figure C-54: Graphical deflection results using ISLAB2000 (fine mesh)

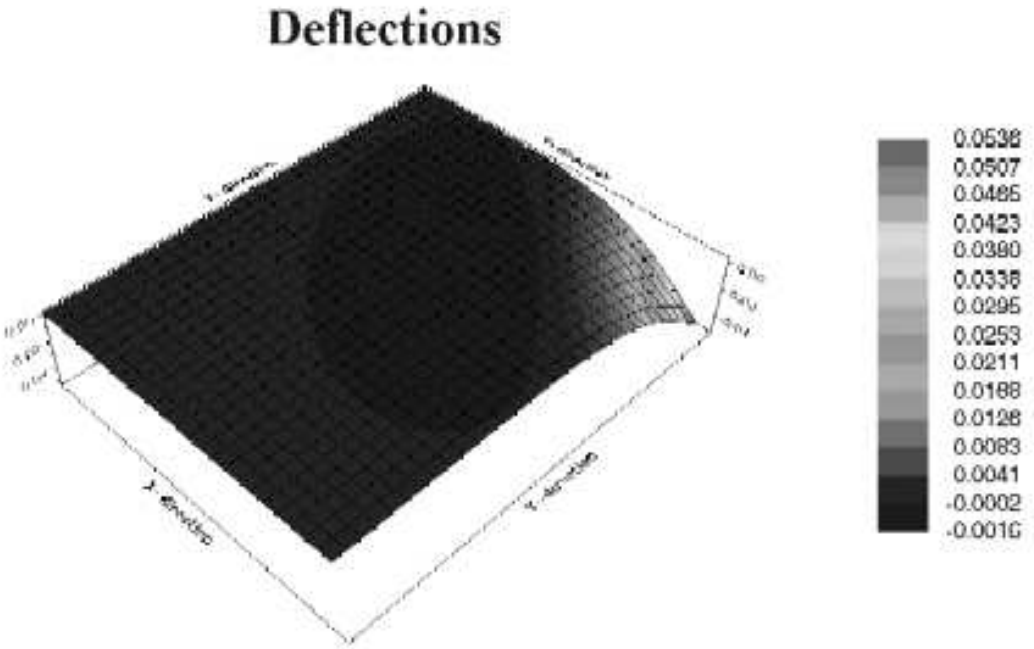

Figure C-55: Graphical deflection results using ISLAB2000 (medium mesh)

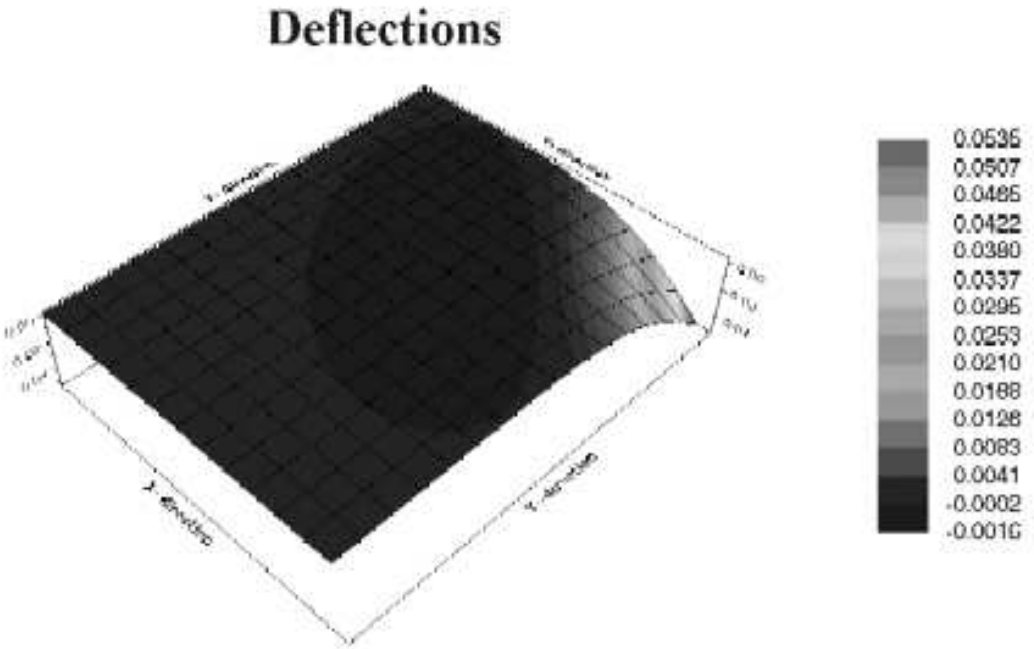

Figure C-56: Graphical deflection results using ISLAB2000 (coarse mesh)

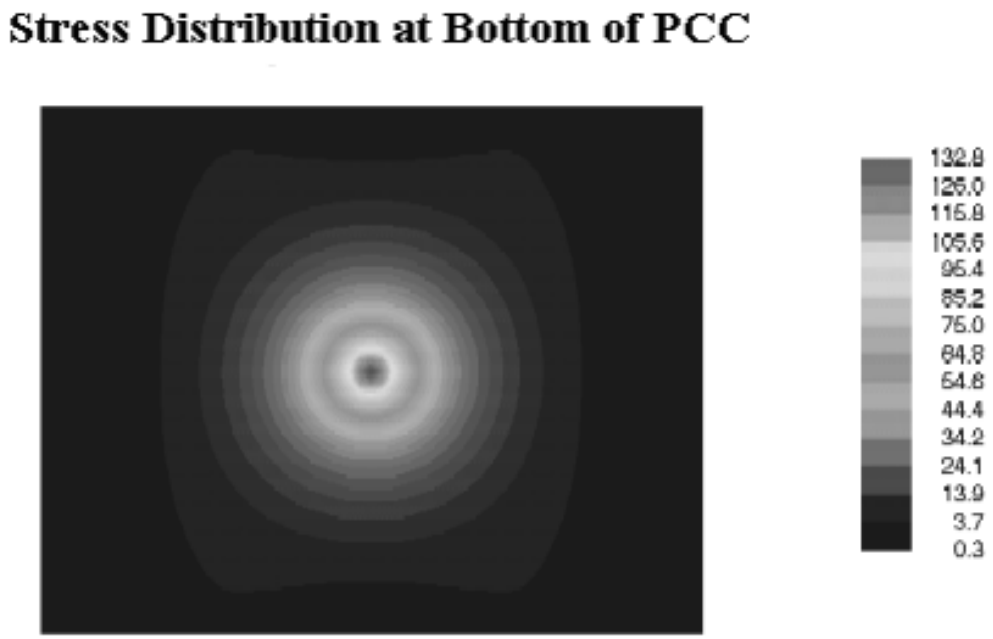

Figure C-59: Graphical stress results using ISLAB2000 (fine mesh)

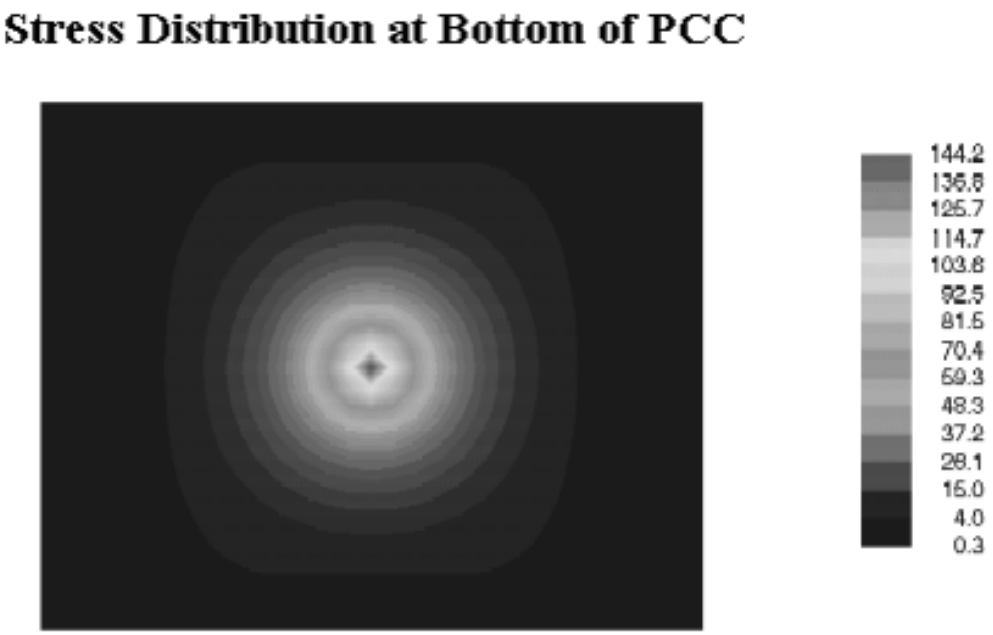

Figure C-60: Graphical stress results using ISLAB2000 (medium mesh)

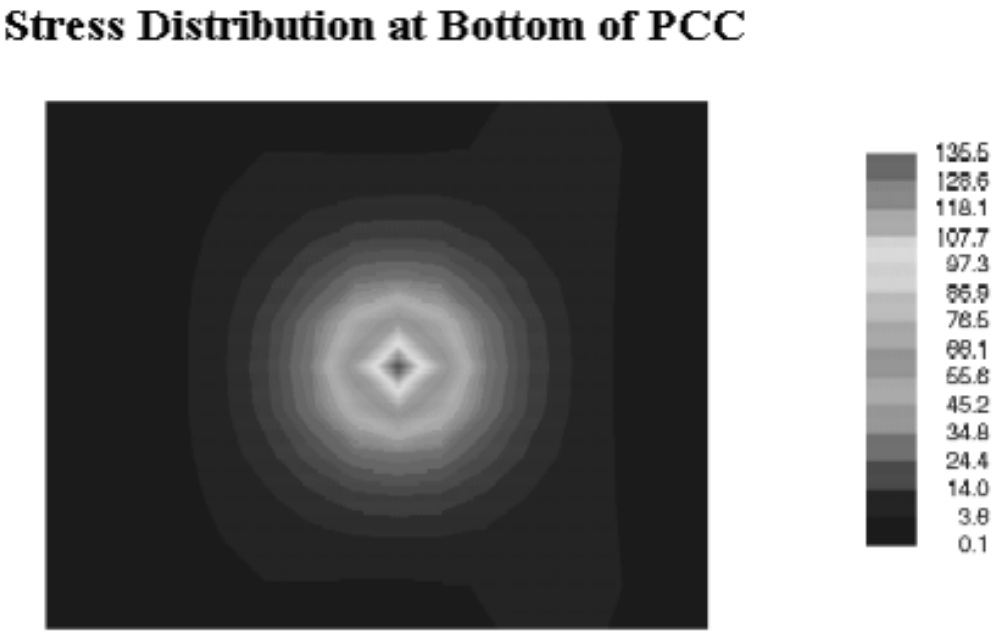

Figure C-61: Graphical stress results using ISLAB2000 (coarse mesh)

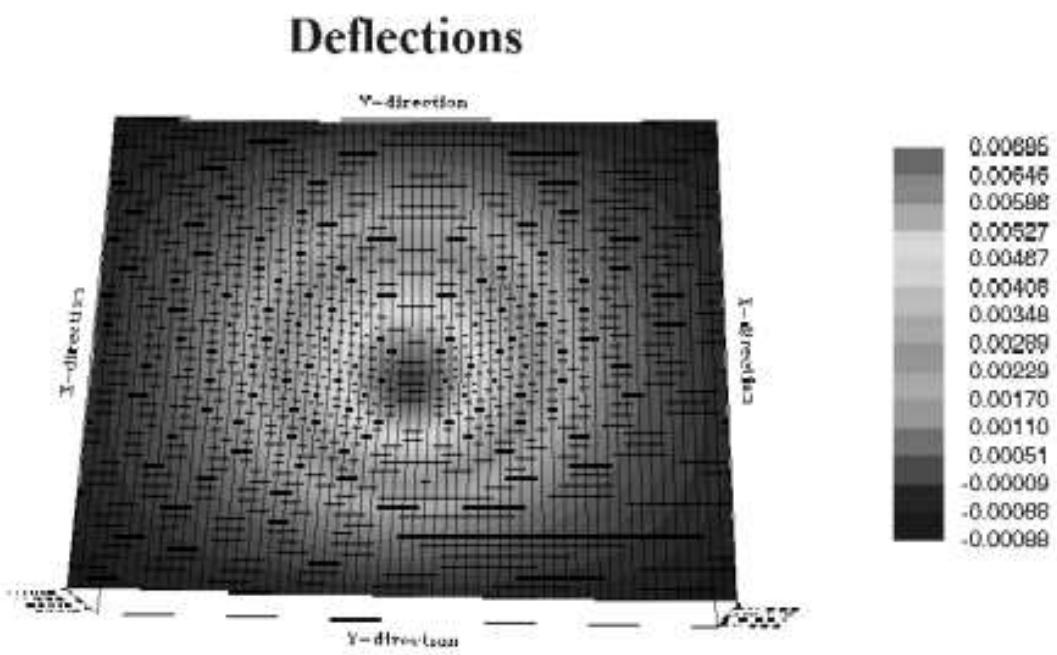

Figure C-64: Graphical deflection results using ISLAB2000 (fine mesh)

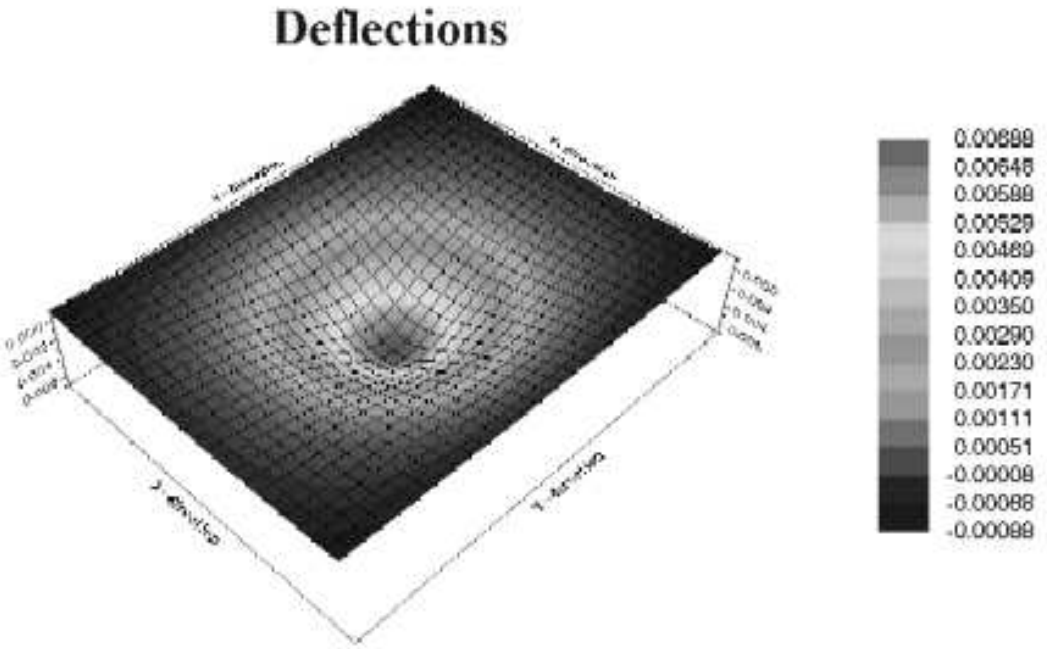

Figure C-65: Graphical deflection results using ISLAB2000 (medium mesh)

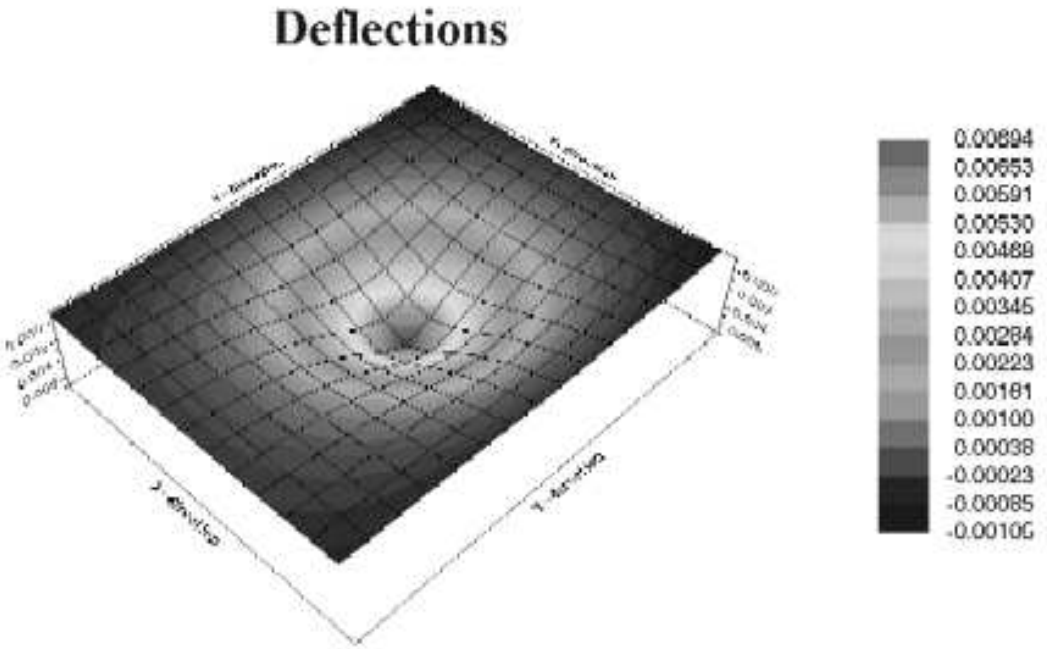

Figure C-66: Graphical deflection results using ISLAB2000 (coarse mesh)

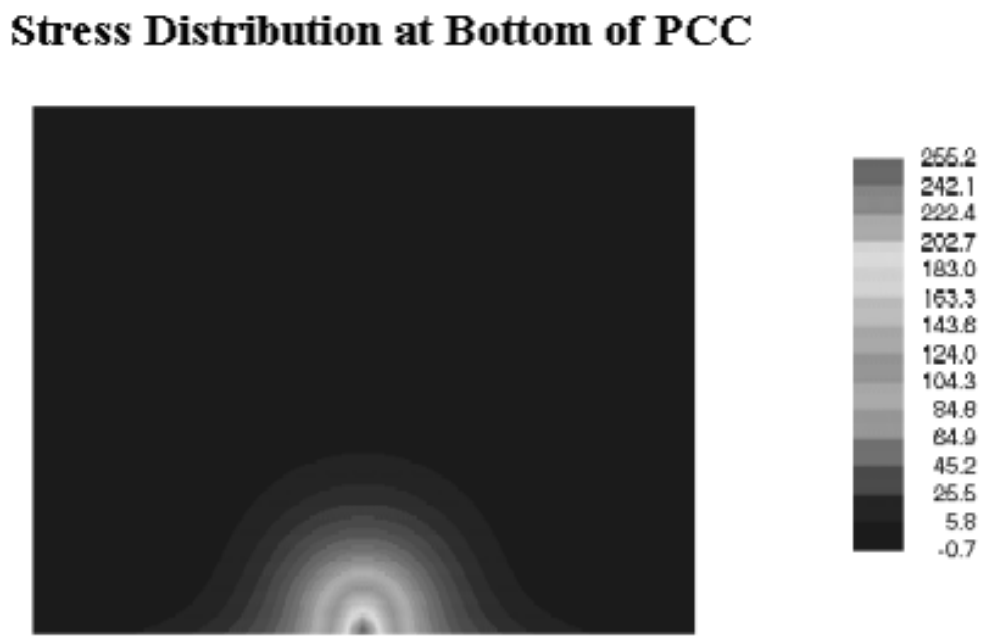

Figure C-69: Graphical stress results using ISLAB2000 (fine mesh)

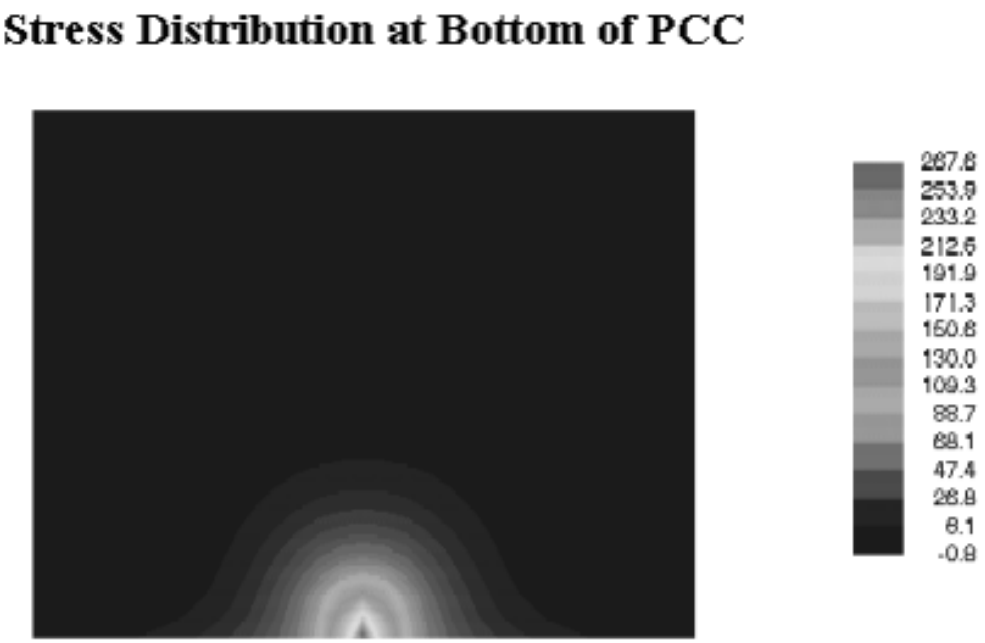

Figure C-70: Graphical stress results using ISLAB2000 (medium mesh)

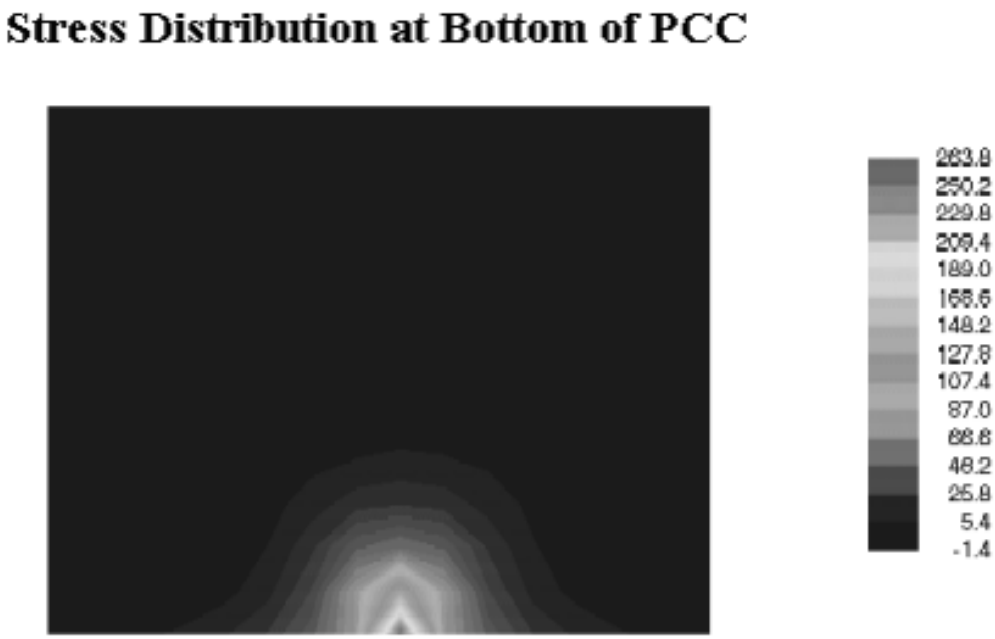

Figure C-71: Graphical stress results using ISLAB2000 (coarse mesh)

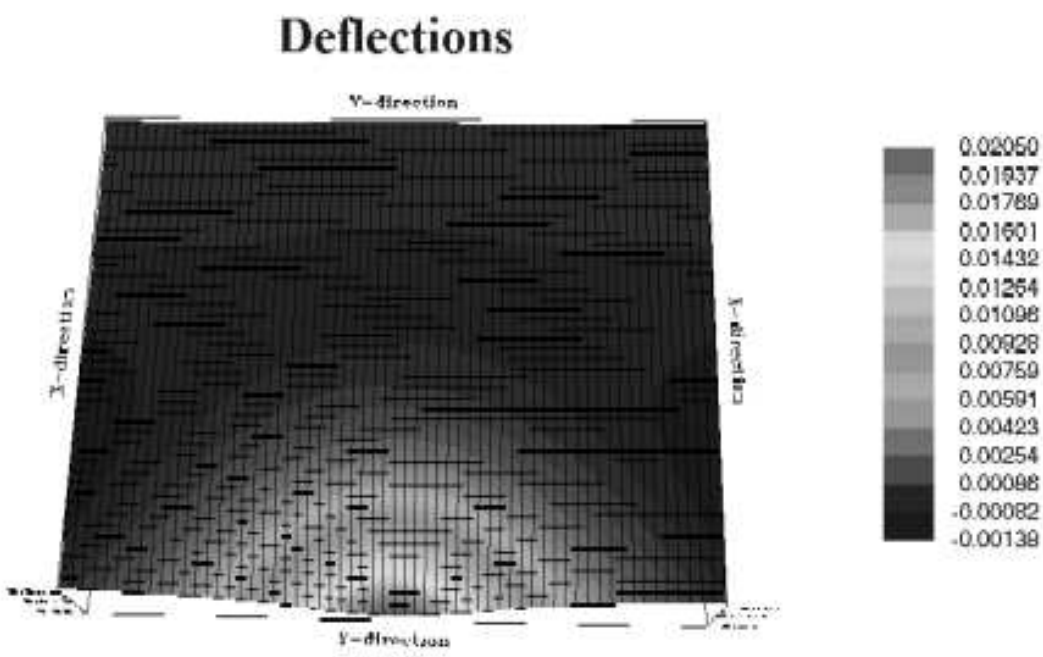

Figure C-74: Graphical deflection results using ISLAB2000 (fine mesh)

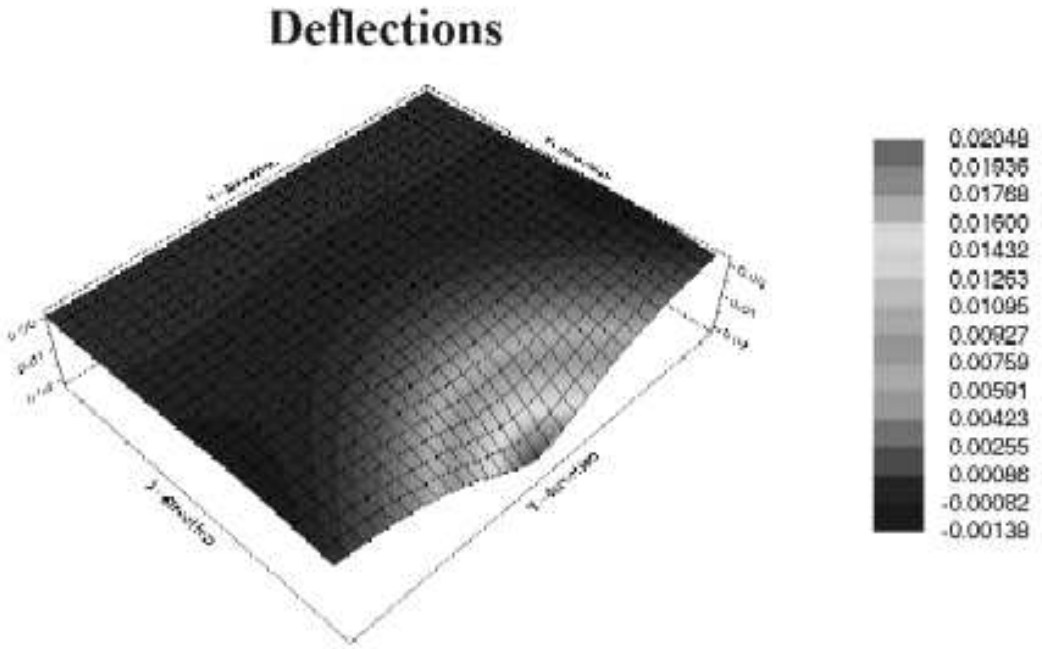

Figure C-75: Graphical deflection results using ISLAB2000 (medium mesh)

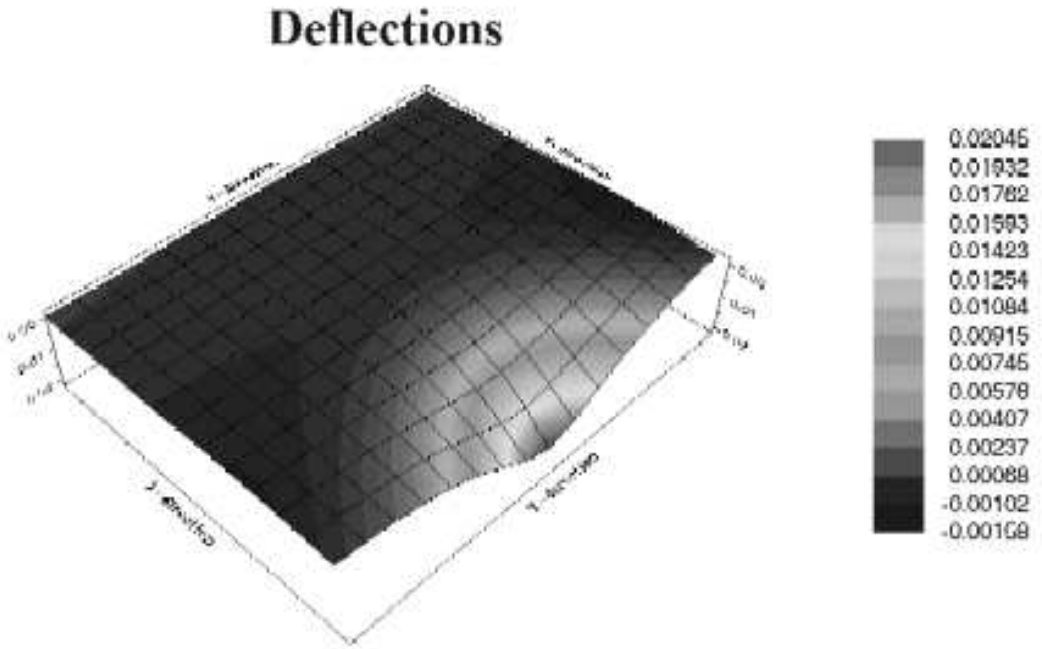

Figure C-76: Graphical deflection results using ISLAB2000 (coarse mesh)

Problem 6 (Problem 4-1 page 203 in the textbook)

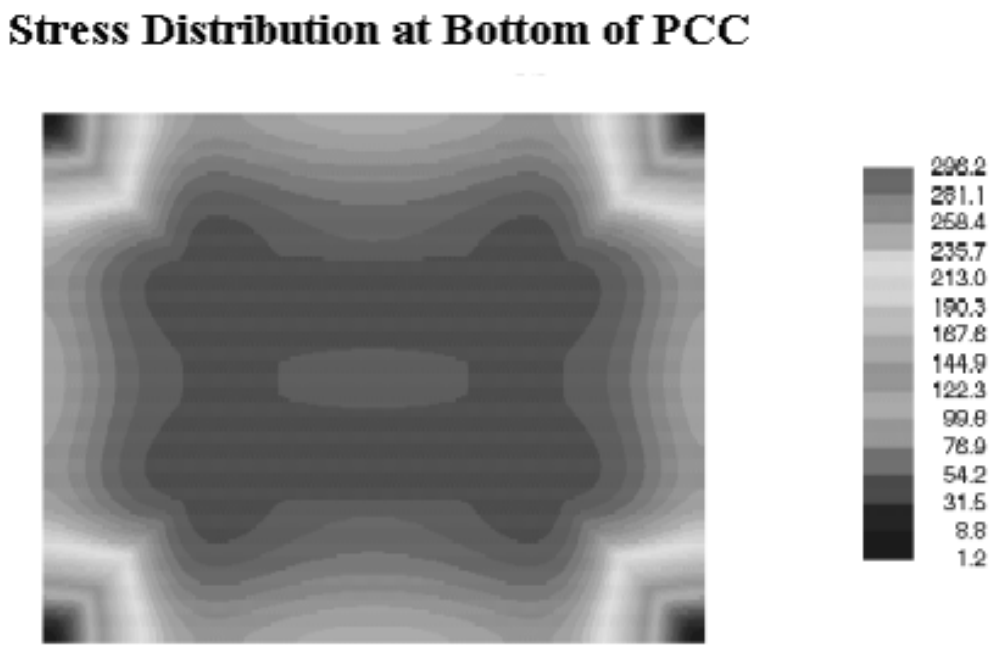

Figure C-79: Graphical stress results using ISLAB2000 (fine mesh)

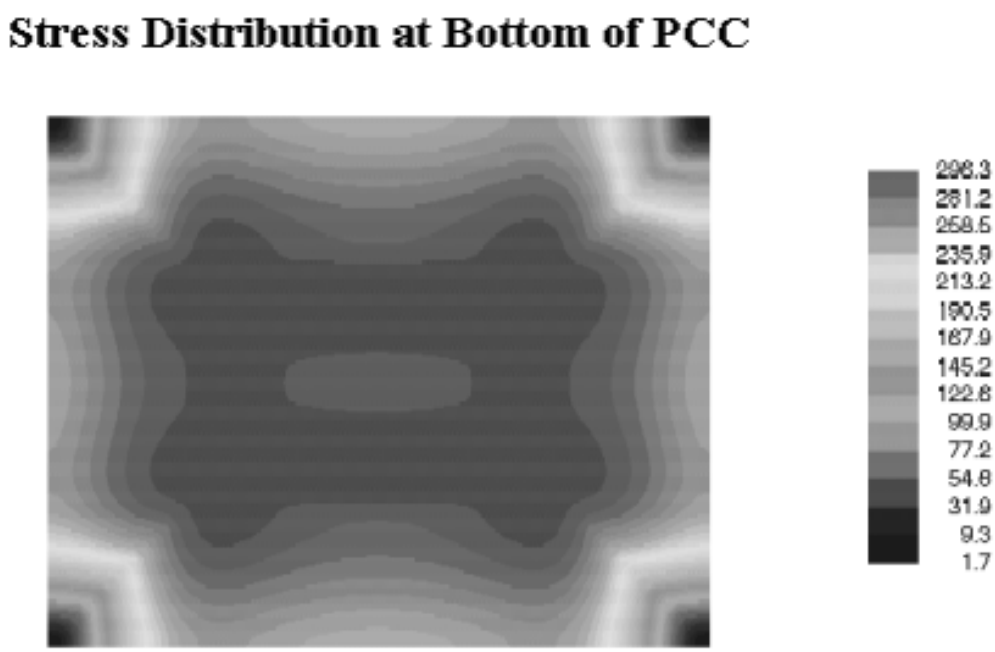

Figure C-80: Graphical stress results using ISLAB2000 (medium mesh)

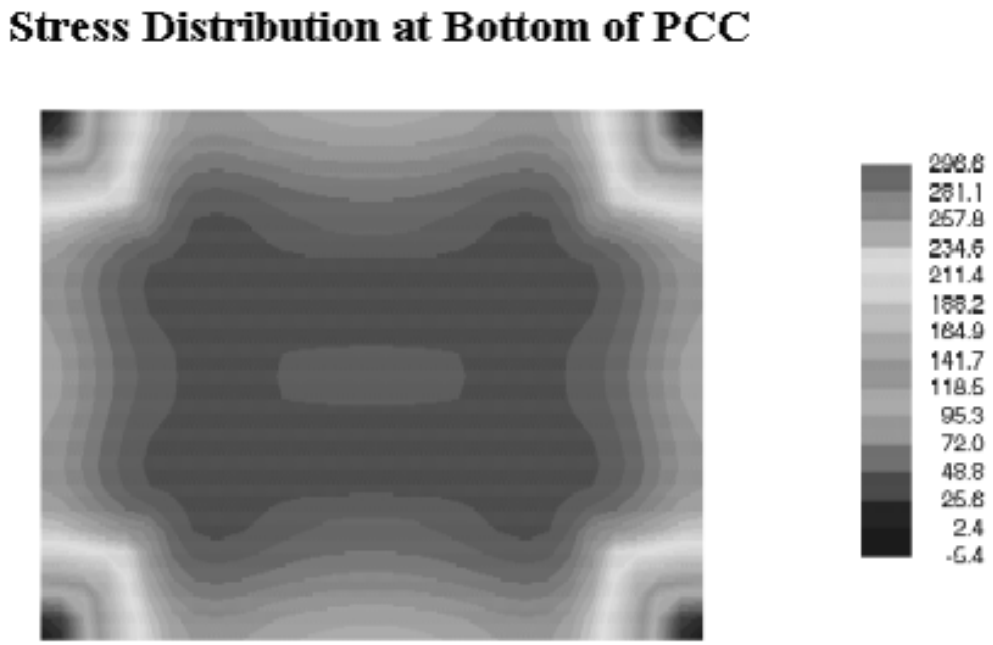

Figure C-81: Graphical stress results using ISLAB2000 (coarse mesh)

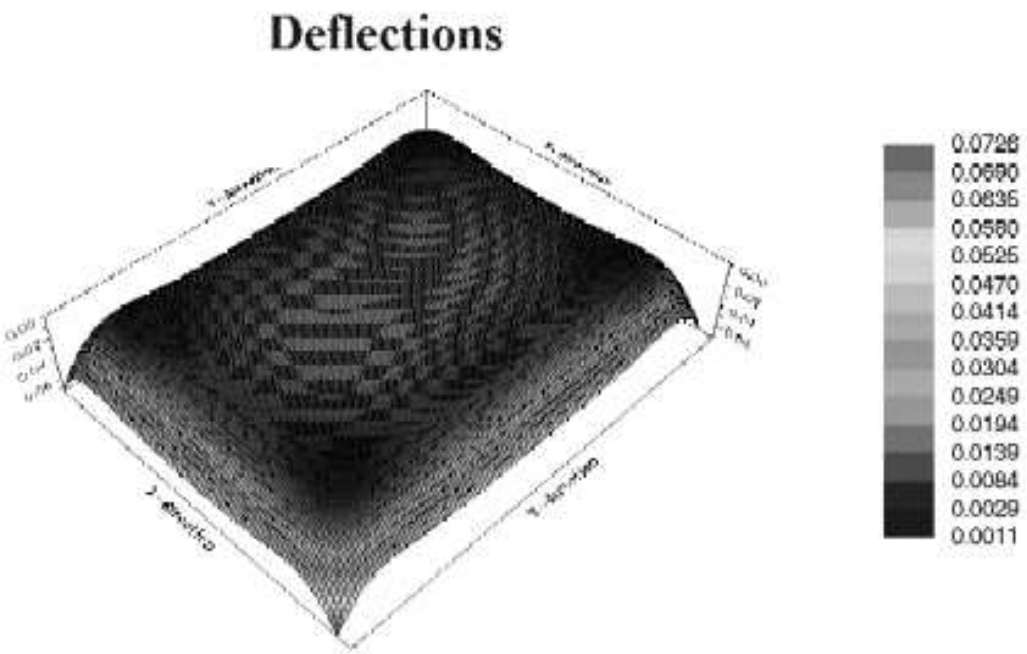

Figure C-84: Graphical deflection results using ISLAB2000 (fine mesh)

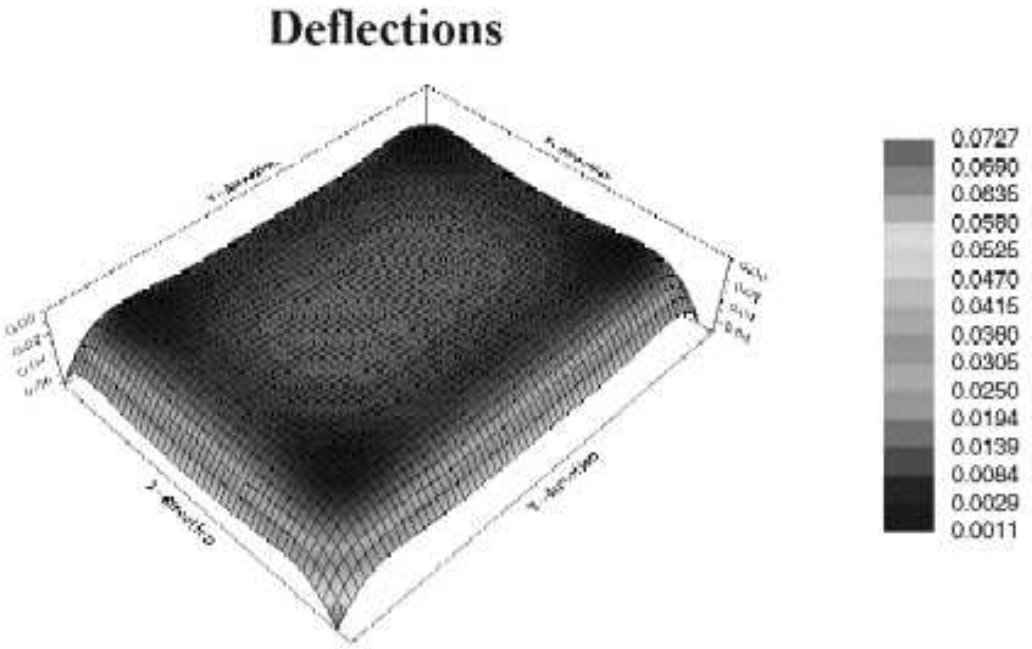

Figure C-85: Graphical deflection results using ISLAB2000 (medium mesh)

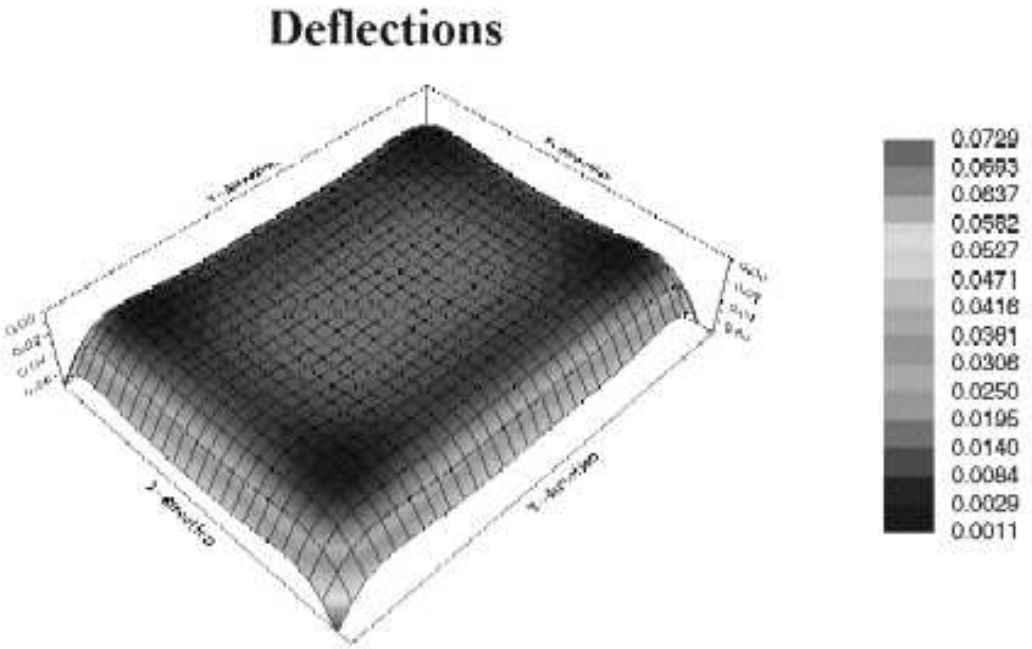

Figure C-86: Graphical deflection results using ISLAB2000 (coarse mesh)

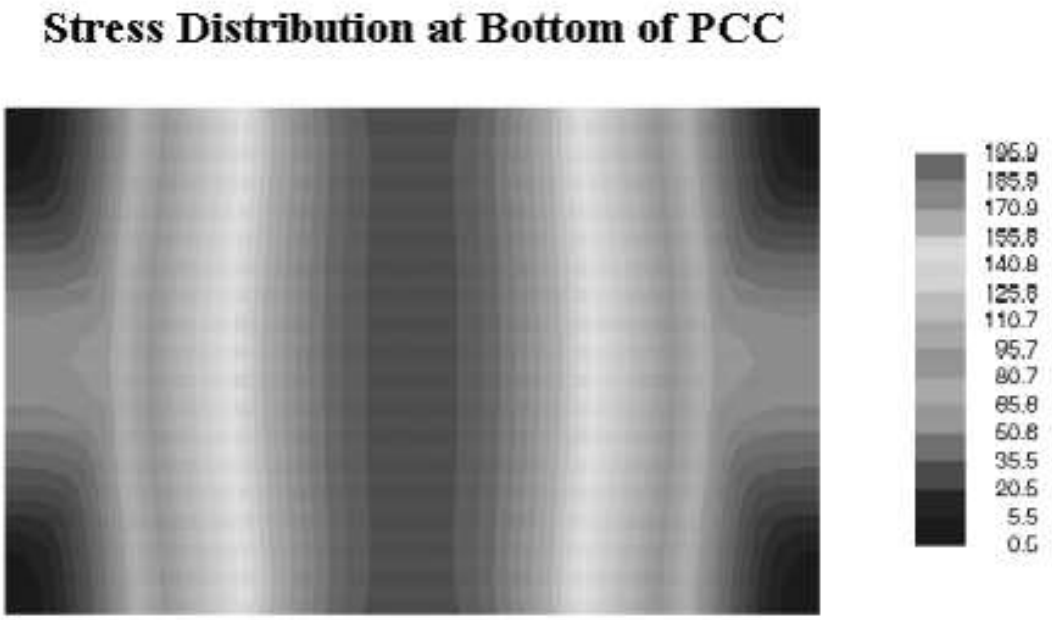

Figure C-89: Graphical stress results using ISLAB2000 (fine mesh)

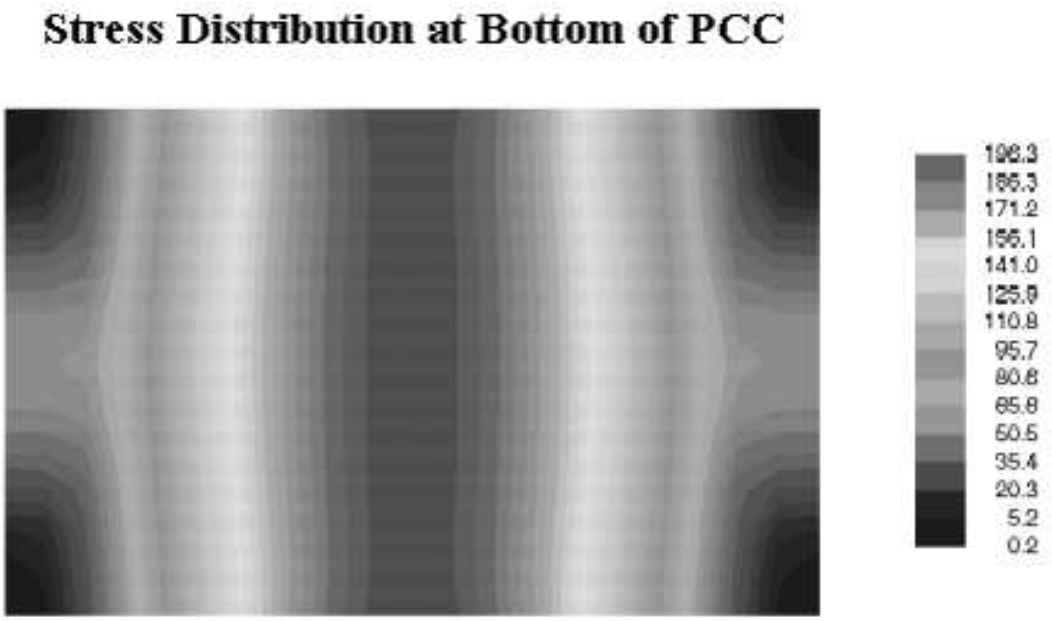

Figure C-90: Graphical stress results using ISLAB2000 (medium mesh)

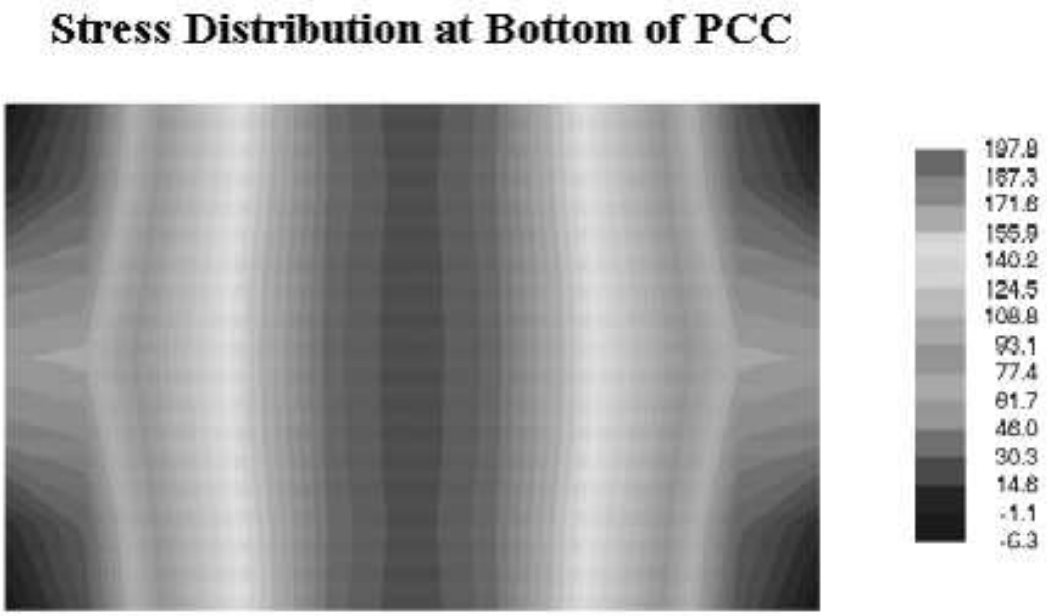

Figure C-91: Graphical stress results using ISLAB2000 (coarse mesh)

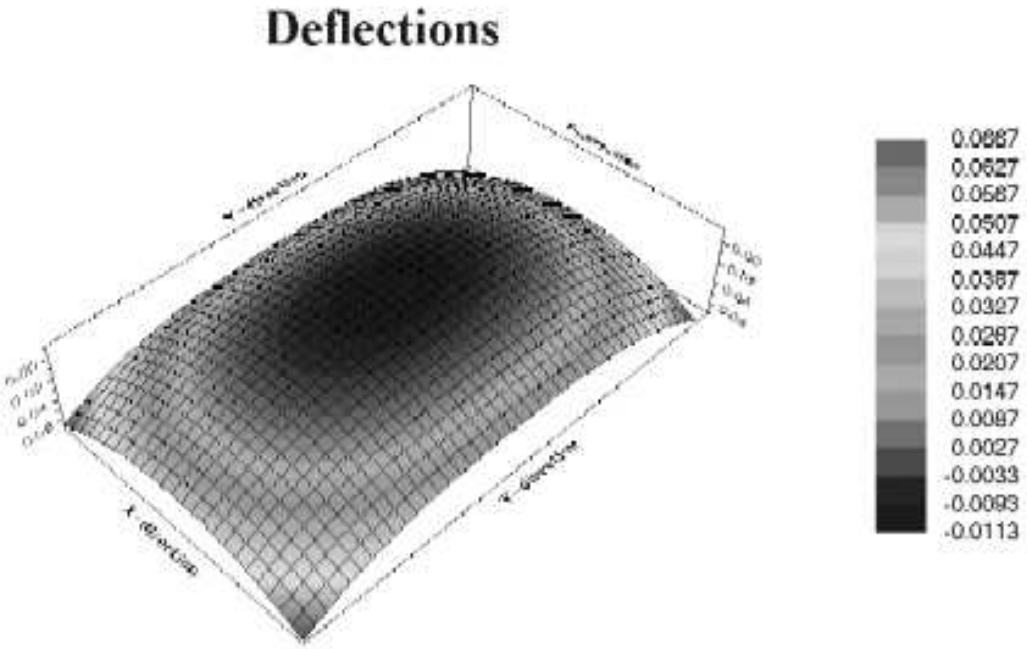

Figure C-94: Graphical deflection results using ISLAB2000 (fine mesh)

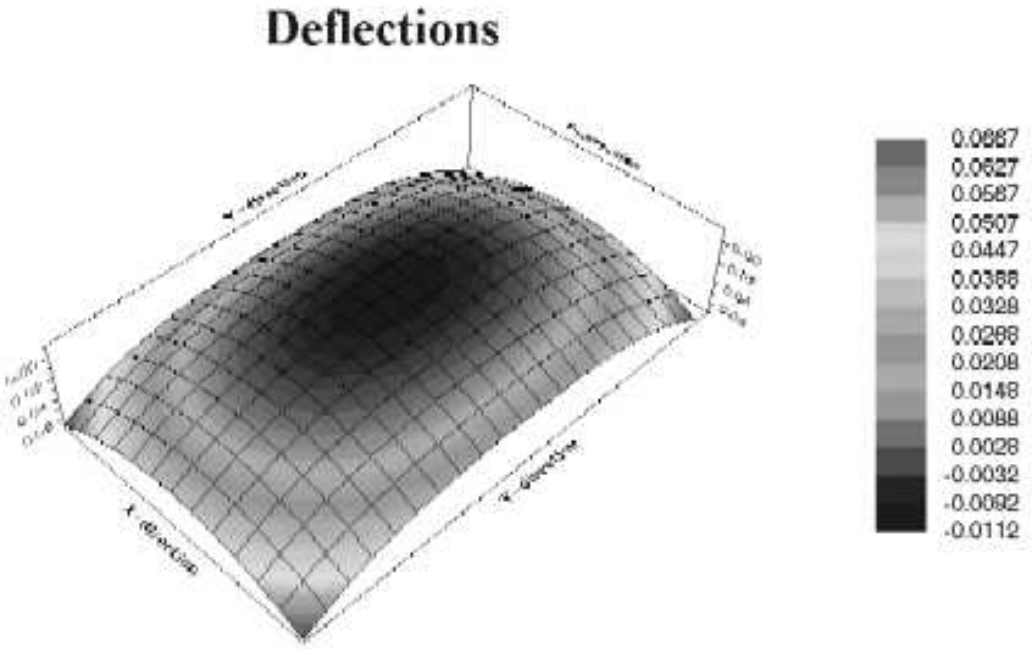

Figure C-95: Graphical deflection results using ISLAB2000 (medium mesh)

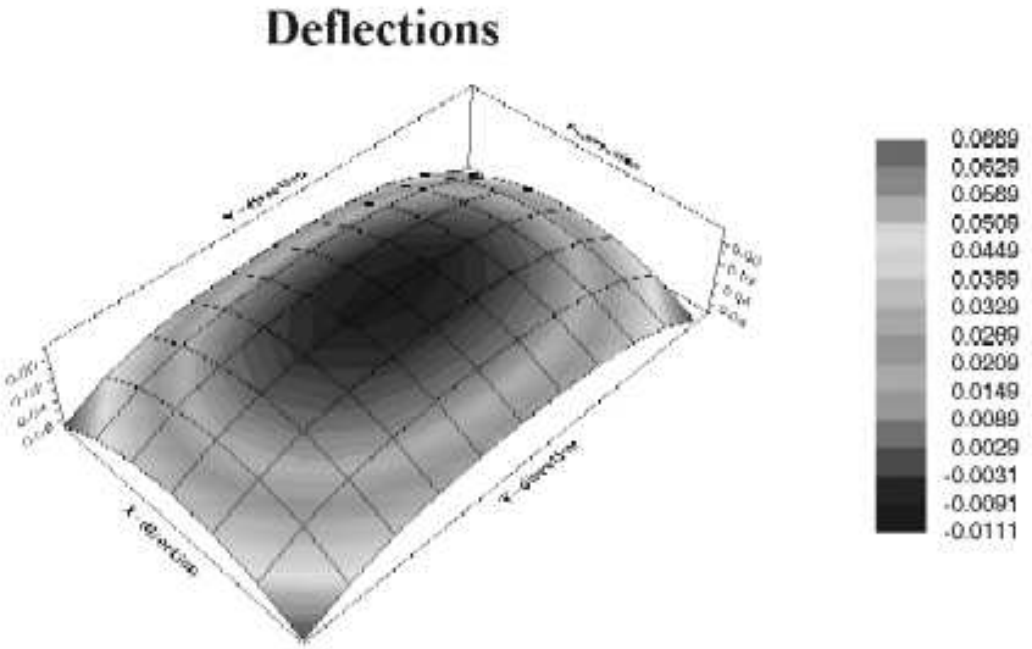

Figure C-96: Graphical deflection results using ISLAB2000 (coarse mesh)

Problem 7 (Problem 4-2 page 204 in the textbook)

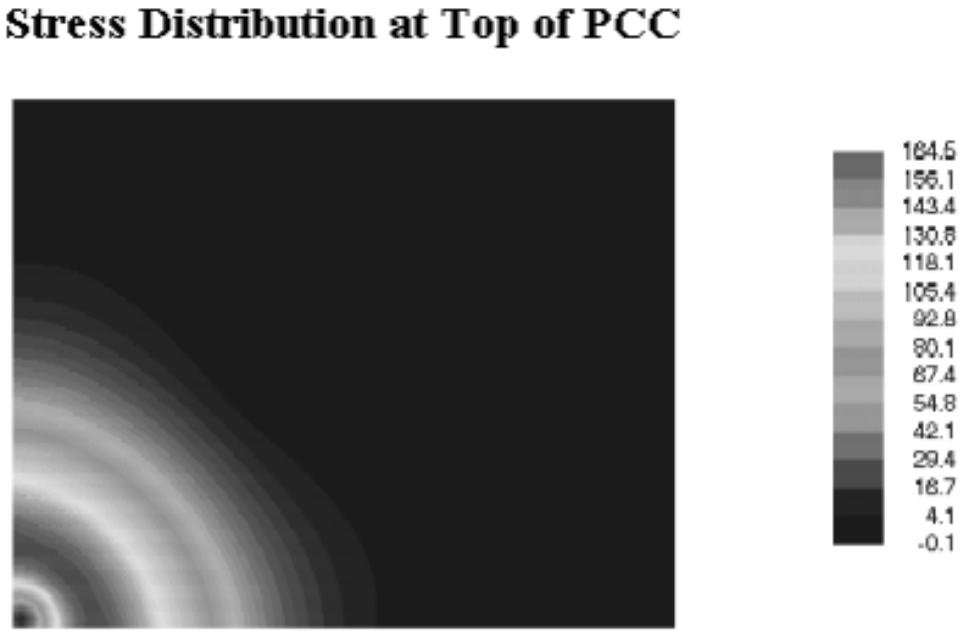

Figure C-99: Graphical stress results using ISLAB2000 (fine mesh)

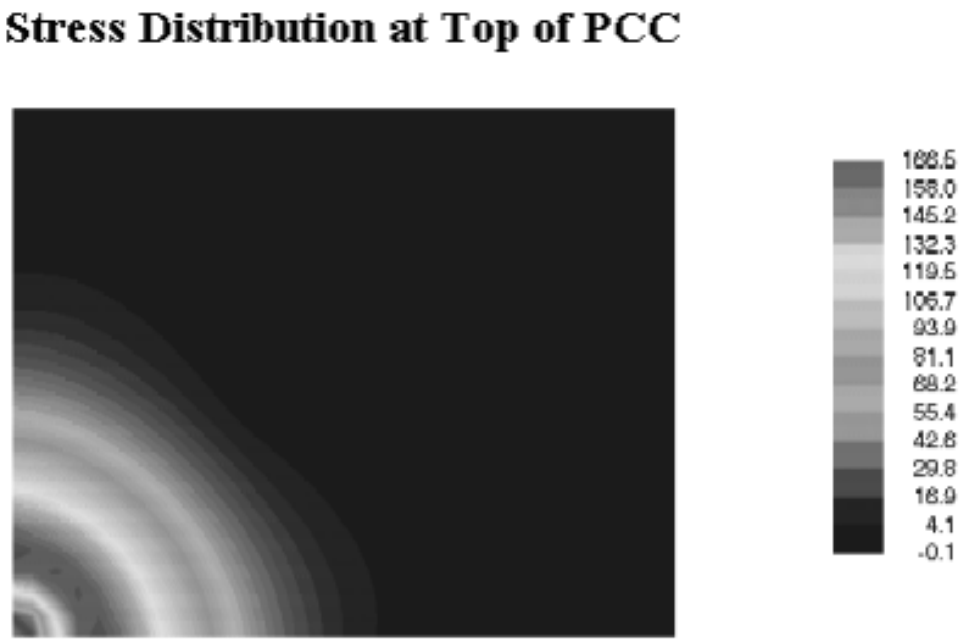

Figure C-100: Graphical stress results using ISLAB2000 (medium mesh)

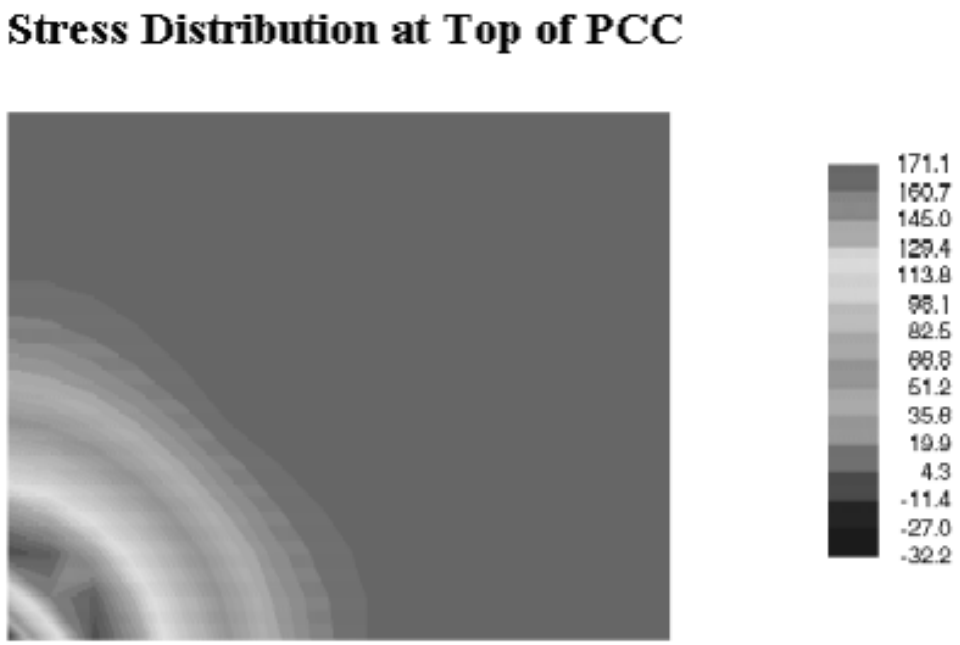

Figure C-101: Graphical stress results using ISLAB2000 (coarse mesh)

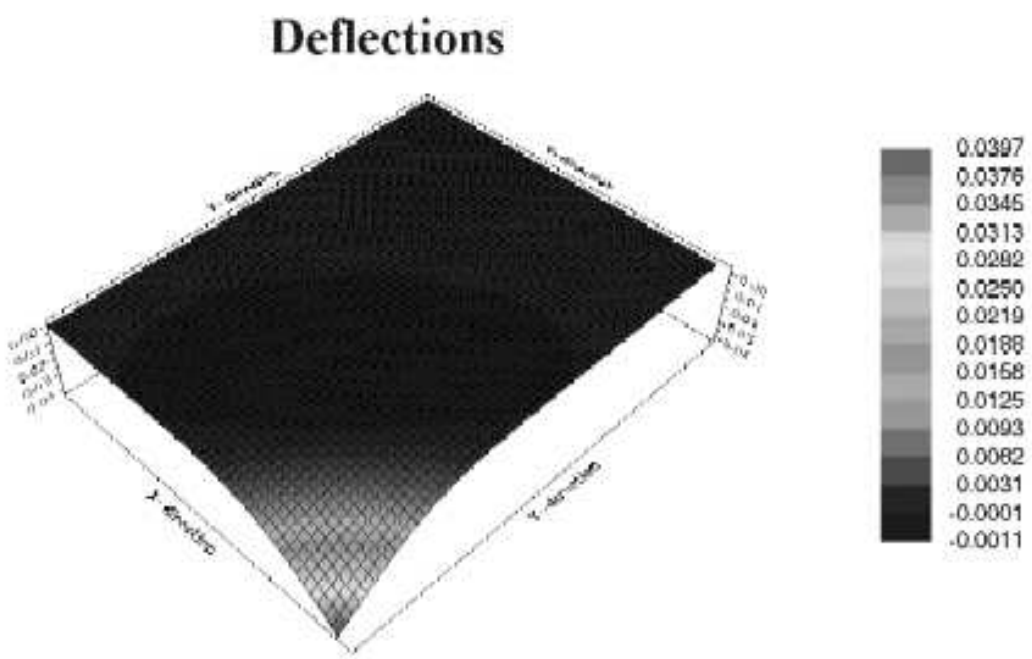

Figure C-104: Graphical deflection results using ISLAB2000 (fine mesh)

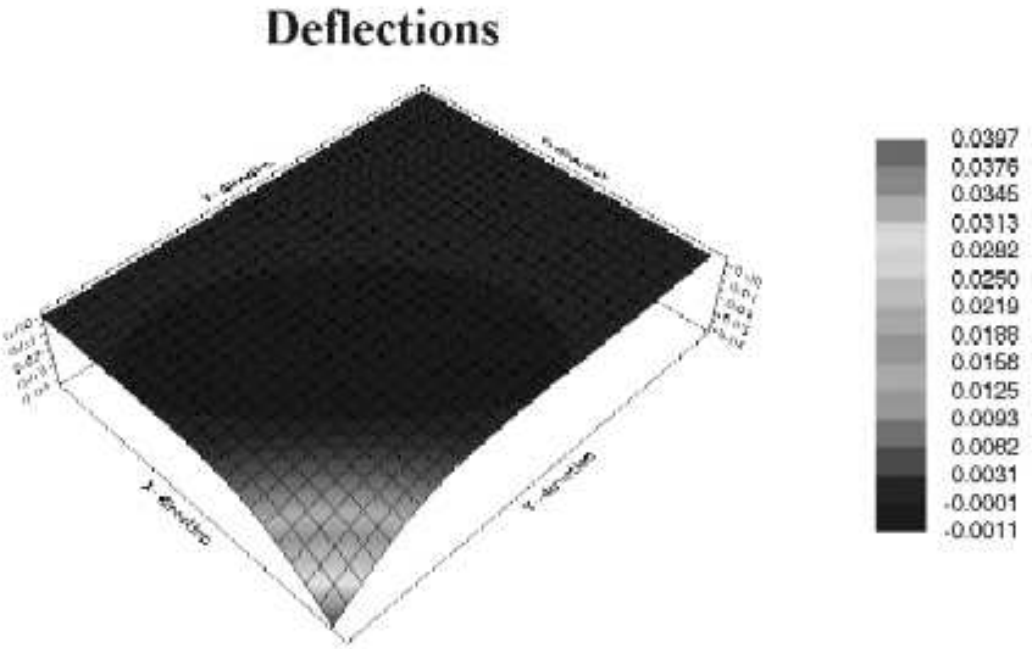

Figure C-105: Graphical deflection results using ISLAB2000 (medium mesh)

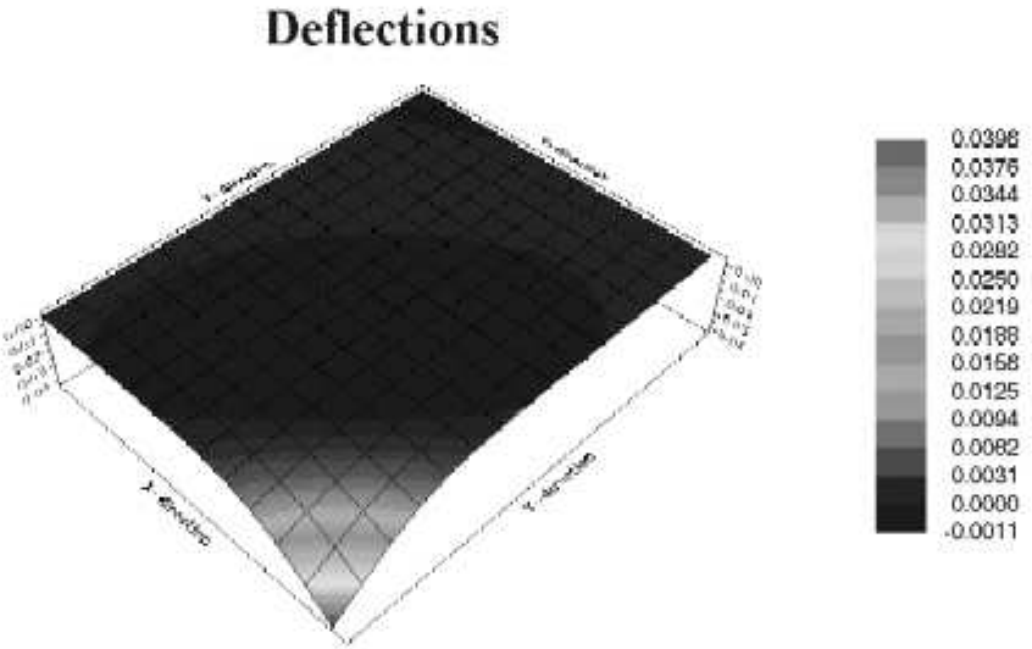

Figure C-106: Graphical deflection results using ISLAB2000 (coarse mesh)

Problem 8 (Problem 4-3 page 204 in the textbook)

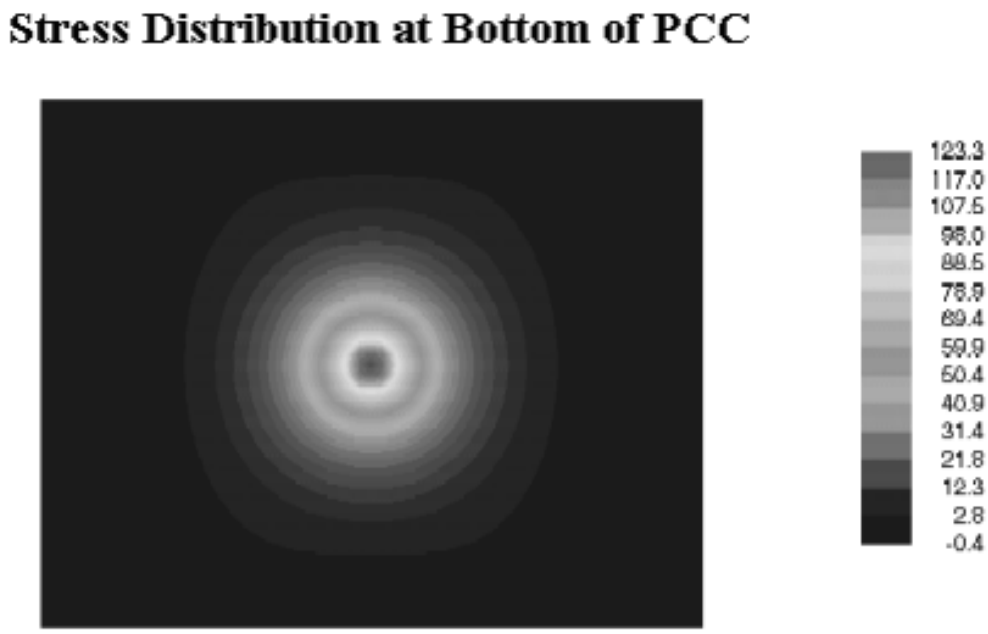

Figure C-109: Graphical stress results using ISLAB2000 (fine mesh)

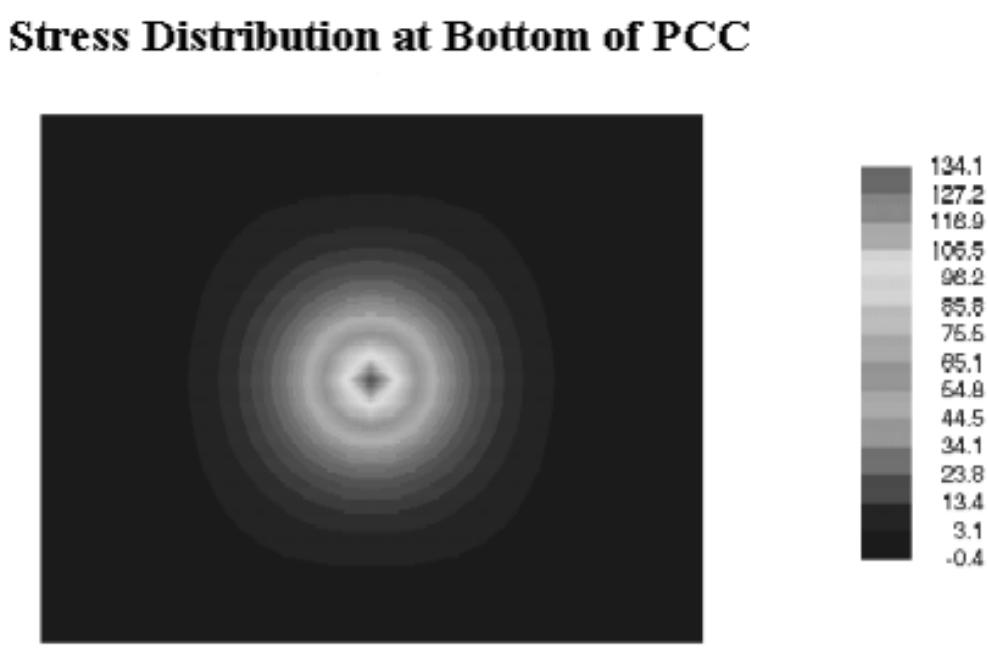

Figure C-110: Graphical stress results using ISLAB2000 (medium mesh)

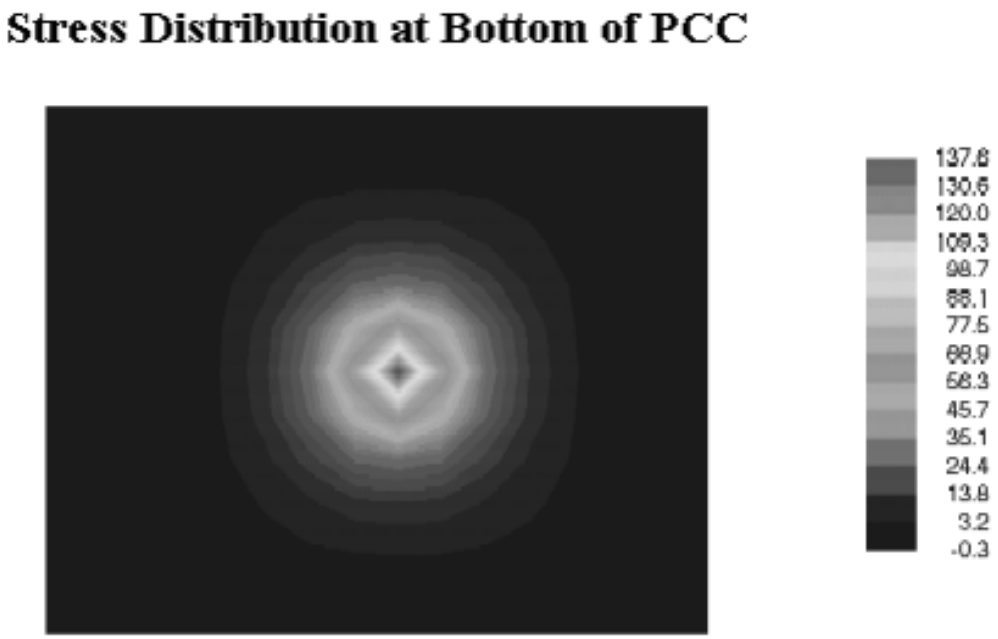

Figure C-111: Graphical stress results using ISLAB2000 (coarse mesh)

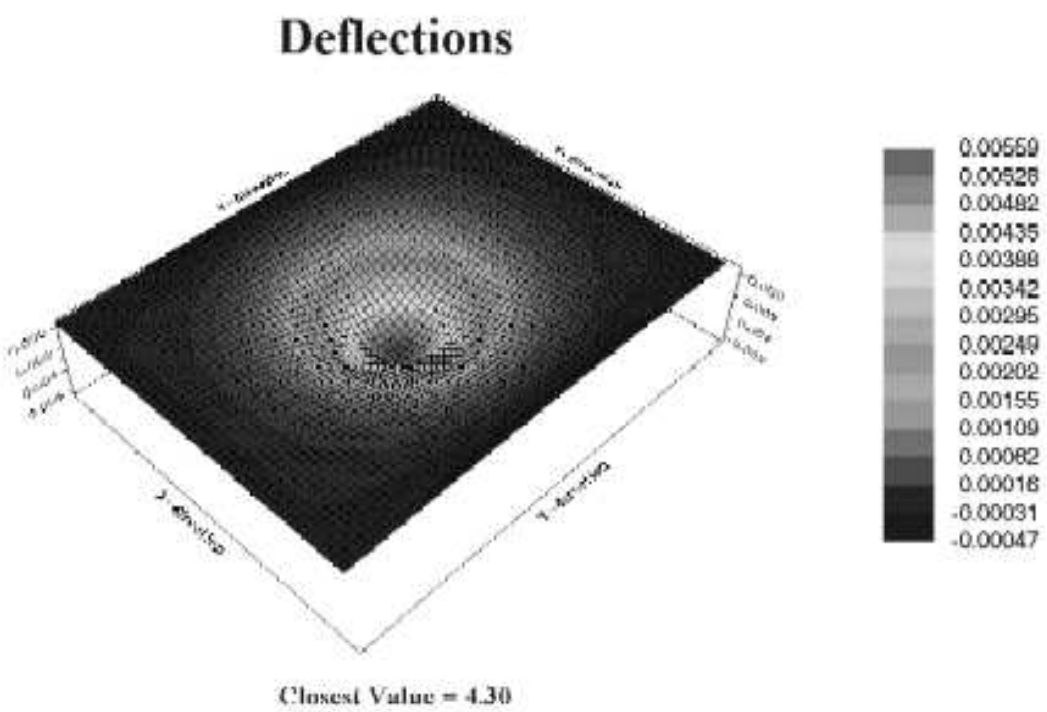

Figure C-114: Graphical deflection results using ISLAB2000 (fine mesh)

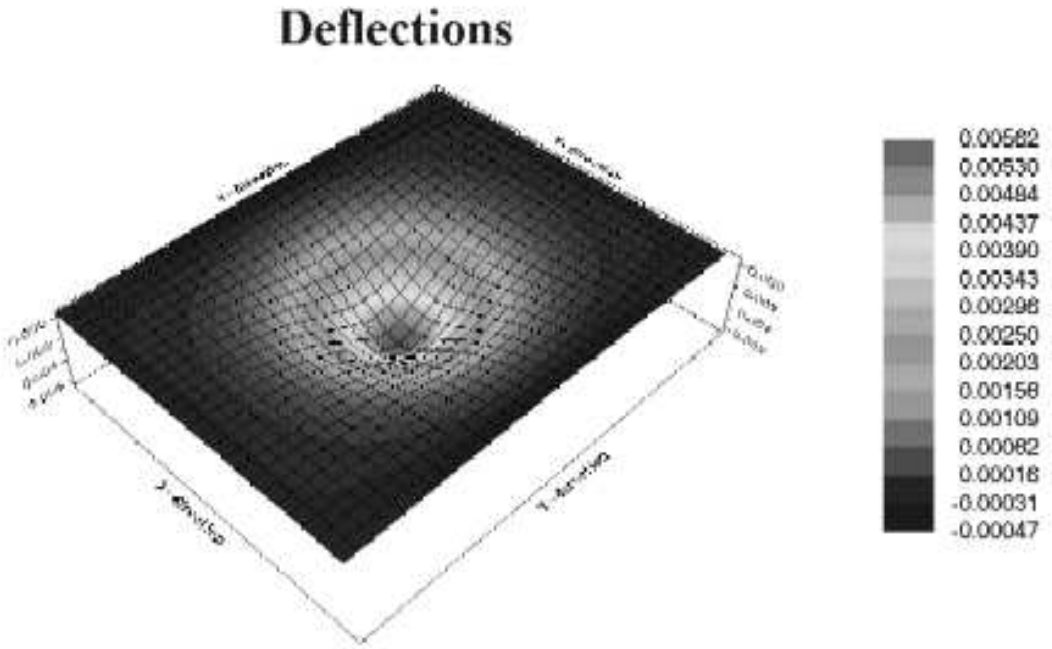

Figure C-115: Graphical deflection results using ISLAB2000 (medium mesh)

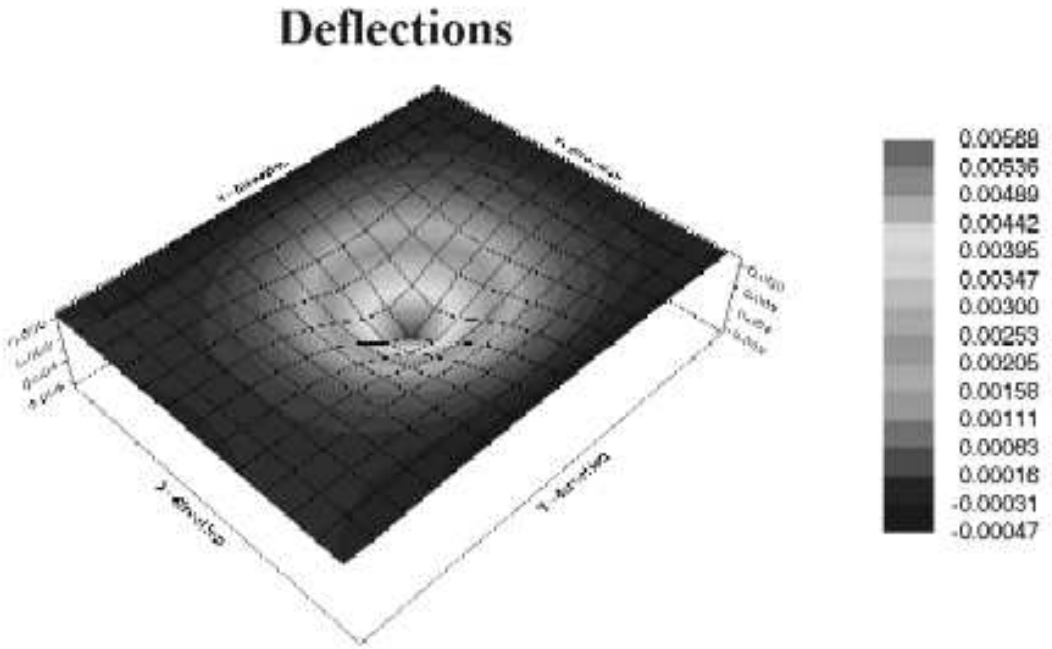

Figure C-116: Graphical deflection results using ISLAB2000 (coarse mesh)

Problem 9 (Problem 4-4 page 204 in the textbook)

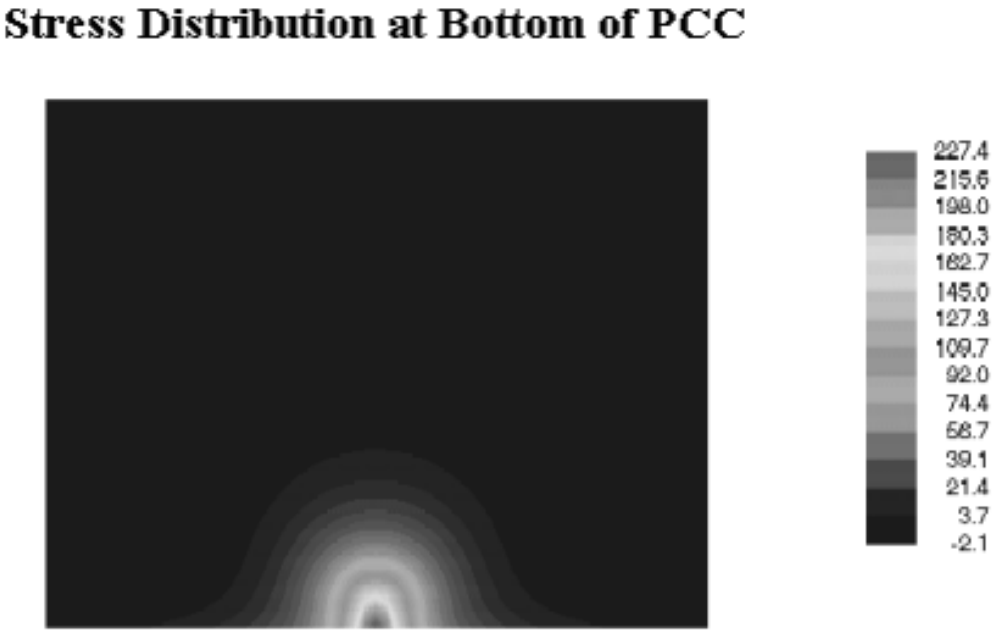

Figure C-119: Graphical stress results using ISLAB2000 (fine mesh)

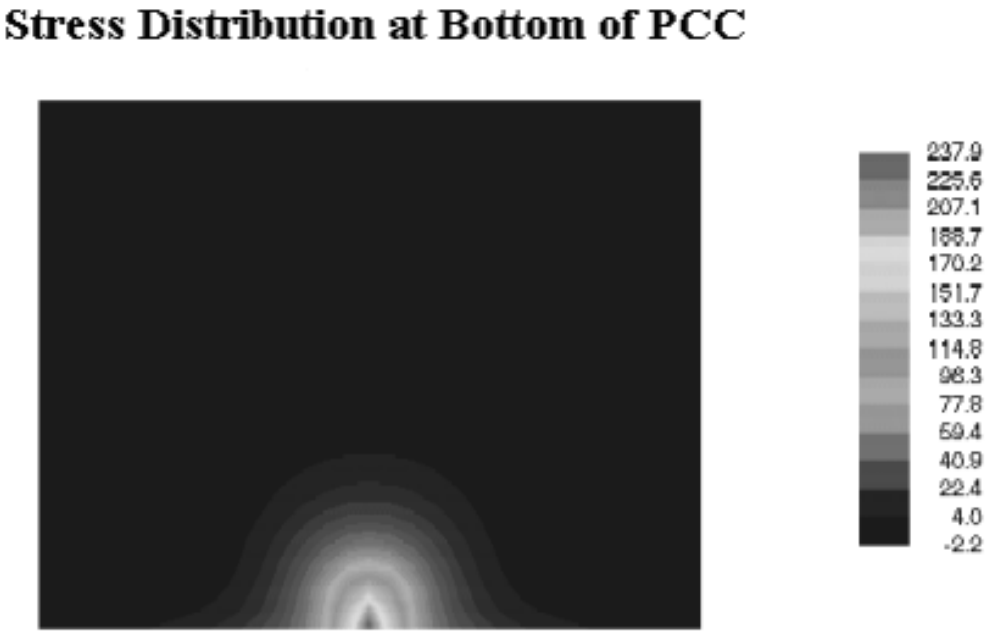

Figure C-120: Graphical stress results using ISLAB2000 (medium mesh)

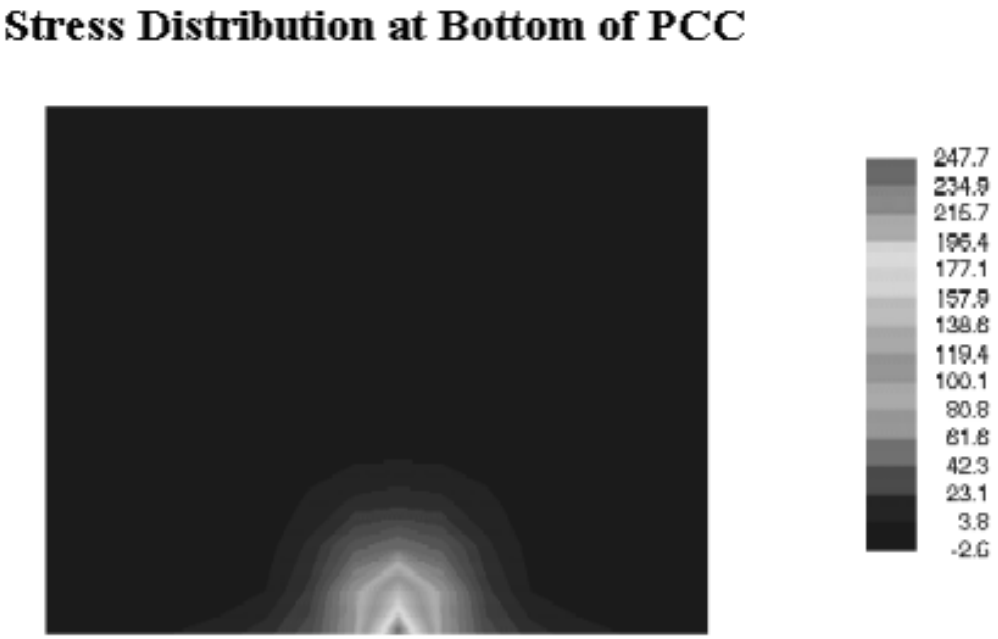

Figure C-121: Graphical stress results using ISLAB2000 (coarse mesh)

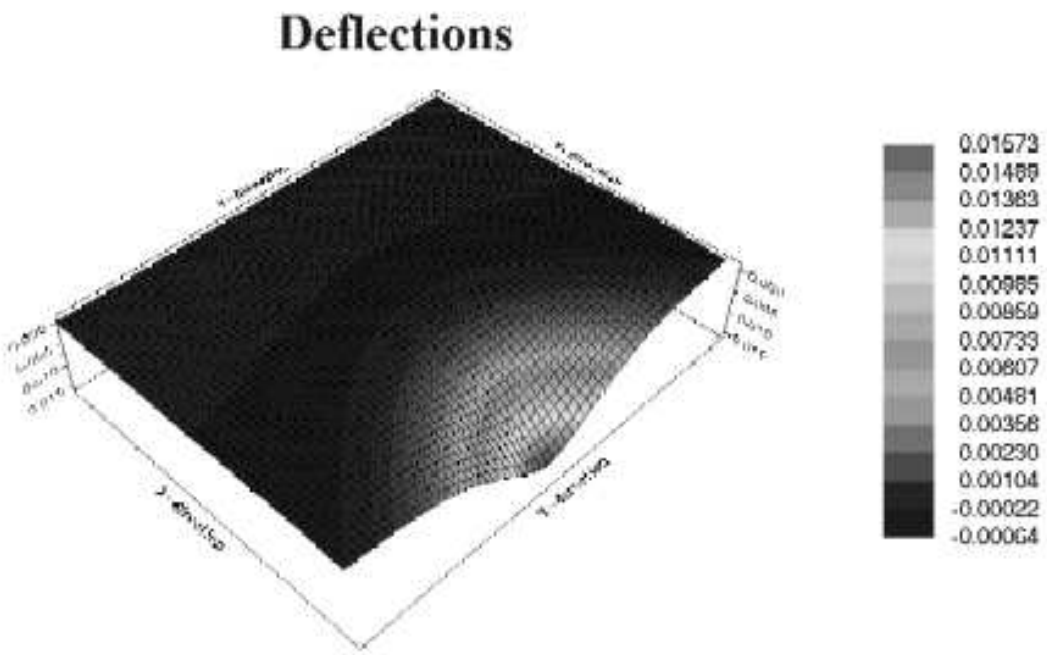

Figure C-124: Graphical deflection results using ISLAB2000 (fine mesh)

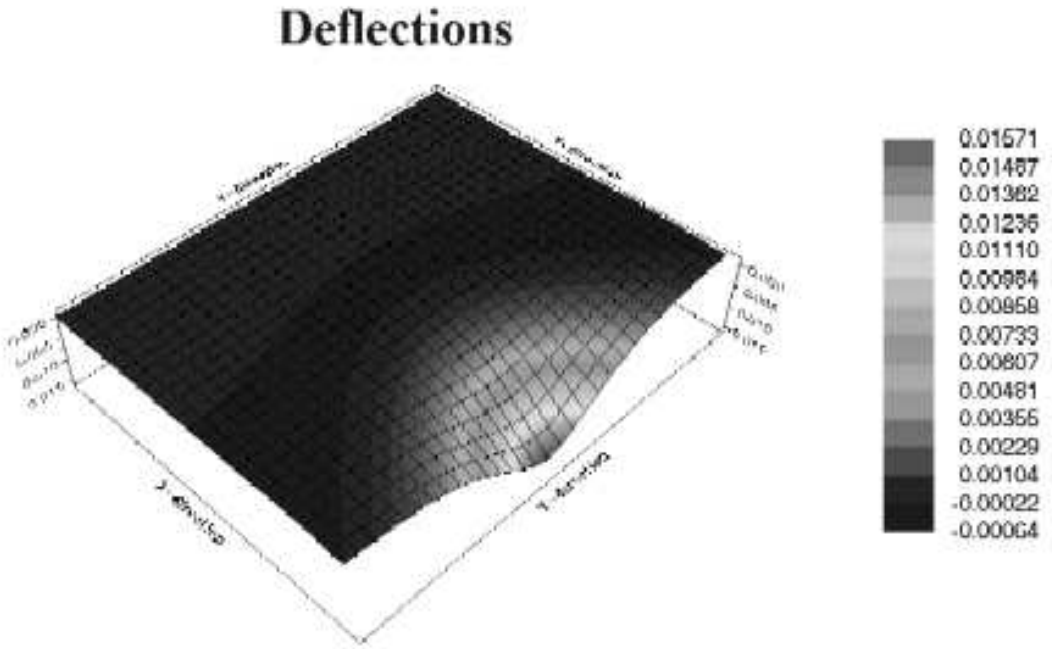

Figure C-125: Graphical deflection results using ISLAB2000 (medium mesh)

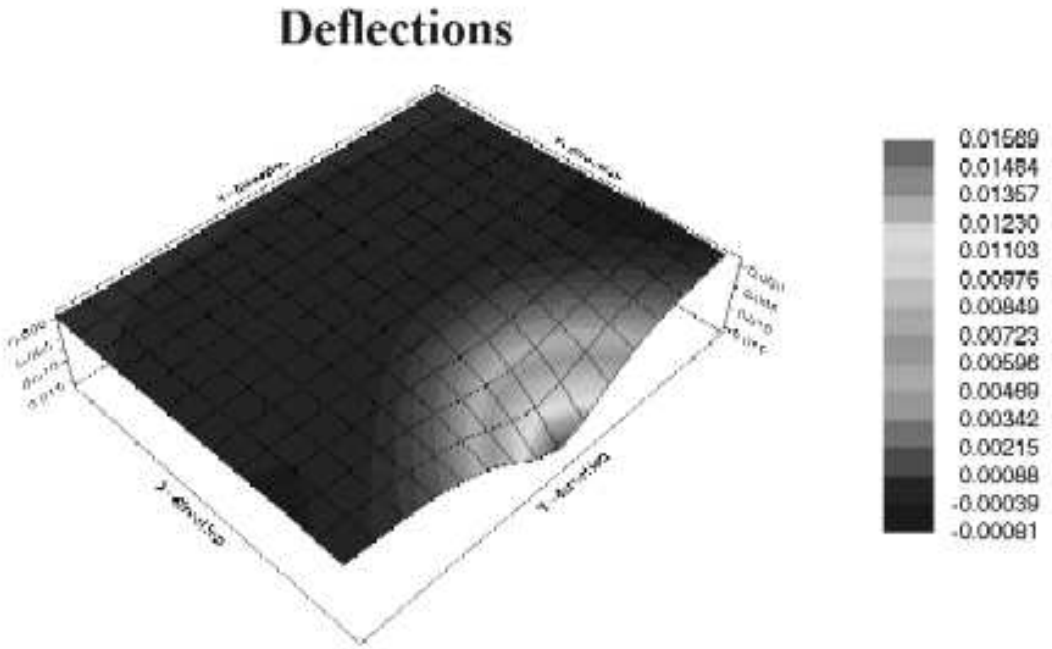

Figure C-126: Graphical deflection results using ISLAB2000 (coarse mesh)