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Chapter 6

6.1 The following table can now be prepared. Note: $B = 2$ m (diameter); $z = 3$ m;
 $q_s = 150$ kN/m²

$\frac{r}{\left(\frac{B}{2}\right)}$	r (m)	$\frac{r}{\left(\frac{B}{2}\right)}$	$\frac{\Delta\sigma}{q_s}$ ^a	$\Delta\sigma$ (kN/m ²)
3	0	0	0.146	21.9
3	0.4	0.4	0.141	21.15
3	0.8	0.8	0.127	19.05
3	1	1	0.118	17.7

^aTable 6.1

6.2 See Eq. (6.1).

Load at r (kN)	r (m)	$\frac{r}{z}$	$\frac{r}{\left(\frac{B}{2}\right)}$	$\frac{3}{2\pi\left[1+\left(\frac{r}{z}\right)^2\right]^{1/2}}$	$\Delta\sigma_z = \frac{P}{z^2} \left\{ \frac{3}{2\pi\left[1+\left(\frac{r}{z}\right)^2\right]^{1/2}} \right\}$ (kN/m ²)
<i>A</i>	100	6	6	1.0	0.234
<i>C</i>	200	$(6^2 + 6^2)^{0.5} = 8.48$	6	1.41	0.172
<i>D</i>	400	$(6^2 + 3^2) = 6.708$	6	1.118	0.699

$$\Delta\sigma_z = \Sigma 1.105 \text{ kN/m}^2$$

Solution Manual Numerical Method Engineering Sixth Edition

**S. P. Venkatesan, Prasanna
Swaminathan**

Solution Manual Numerical Method Engineering Sixth Edition:

Student Solutions Manual to Accompany Linear Algebra with Applications Gareth Williams, 2010-03-18 **Engineering Education**, 1980 **Computational Methods in Engineering** S. P. Venkateshan, Prasanna Swaminathan, 2023-05-31 The book is designed to serve as a textbook for courses offered to graduate and upper undergraduate students enrolled in mechanical engineering. The book attempts to make students with mathematical backgrounds comfortable with numerical methods. The book also serves as a handy reference for practicing engineers who are interested in applications. The book is written in an easy to understand manner with the essence of each numerical method clearly stated. This makes it easy for professional engineers, students, and early career researchers to follow the material presented in the book. The structure of the book has been modeled accordingly. It is divided into four modules: i) solution of a system of equations and eigenvalues which includes linear equations, determining eigenvalues and solution of nonlinear equations; ii) function approximations, interpolation, data fit, numerical differentiation, and numerical integration; iii) solution of ordinary differential equations, initial value problems, and boundary value problems; and iv) solution of partial differential equations, parabolic, elliptic, and hyperbolic PDEs. Each section of the book includes exercises to reinforce the concepts and problems have been added at the end of each chapter. Exercise problems may be solved by using computational tools such as scientific calculators, spreadsheet programs, and MATLAB codes. The detailed coverage and pedagogical tools make this an ideal textbook for students, early career researchers, and professionals.

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