



The Analysis of Irregular Shaped Structures Diaphragms and Shear Walls (Mechanical Engineering)

By Terry R. Malone, Robert Rice

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A Complete Guide to Solving Lateral Load Path Problems

The Analysis of Irregular Shaped Structures: Diaphragms and Shear Walls explains how to calculate the forces to be transferred across multiple discontinuities and reflect the design requirements on construction documents. Step-by-step examples offer progressive coverage, from basic to very advanced illustrations of load paths in complicated structures. The book is based on the 2009 International Building Code, ASCE/SEI 7-05, the 2005 Edition of the National Design Specification for Wood Construction, and the 2008 Edition of the Special Design Provisions for Wind and Seismic (SDPWS-08).

COVERAGE INCLUDES:

- Code sections and analysis
- Diaphragm basics
- Diaphragms with end horizontal offsets
- Diaphragms with intermediate offsets
- Diaphragms with openings
- Open front and cantilever diaphragms
- Diaphragms with vertical offsets
- Complex diaphragms with combined openings and offsets
- Standard shear walls
- Shear walls with openings
- Discontinuous shear walls
- Horizontally offset shear walls
- The portal frame
- Rigid moment-resisting frame walls--the frame method of analysis



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Editorial Review

About the Author

R. Terry Malone, P.E., S.E., performs third-party structural plan reviews and presents structural-related seminars at state and local International Code Council (ICC) chapters. He was a practicing structural engineer in Tacoma, Washington for 17 years, after which he became a principal in consulting structural engineering firms in Washington and Oregon from 1985 to 2004. Mr. Malone is currently licensed as Professional Engineer in Washington, Oregon, and Arizona.

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