ADAPT-ABI 2009

Concrete bridge design software – simple, practical, & powerful.

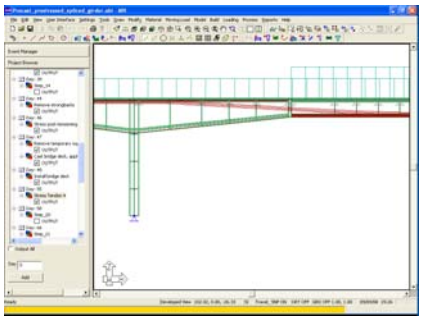
ADAPT-ABI 2009 is a general-purpose program developed for the analysis, design and construction phase support of concrete bridges. It is built on a robust finite element analysis engine that explicitly models time-dependent aspects of a project's construction phasing and time-dependent material behavior. It is a practical design tool that allows bridge design engineers to quickly and efficiently model their bridge projects and get the analysis results they need - regardless of how simple or complex a project is. The software offers an easy-to-use 3D modeling environment and unlimited flexibility in the modeling of bridge geometries and construction sequences – including temporary structures. ADAPT-ABI is the essential bridge modeling and analysis tool for every engineer.

Typical Applications:

- Pre-stressed and post-tensioned girder
- Spliced girder
- Cable-stayed
- Box girder
- Segmentally constructed bridge systems, also with traveler
- Precast or cast-in place
- Construction stage analysis and geometry control
- Design of temporary shoring and support structures

Key Modeling & Analysis Features:

- Time-dependent analysis of construction
- Extendable moving load library with predefined load trains
- Section Manager allows you to import any cross section or to define any section geometry, also with voids
- Explicit composite interaction between girders and deck
- Project Browser makes it easy to specify and manage any construction sequence
- Design code library can be extended by a user defined concrete models
- Applied displacement or temperature gradients
- Easy geometry control during construction
- Structural components can be cast, installed or removed during your construction sequence, tendons can be stressed, re-stressed or de-stressed.
- Reactions and stresses can be viewed graphically for each of the construction steps
- Full analysis, from casting date to 30 years and longer in-service including code combinations, automated enveloping, construction loads, creep, shrinkage, relaxation of prestressing steel, aging of concrete, and temperature effects.



Supported Design Codes:

- ACI 1978
- ACI 1992
- Indian 1343-1980
- AASHTO 1994 / 2007 (new)
- British BS 8110
- CEB/FIP 1978
- DEB1 1978
- EuroCode 2004
- HongKong
- User defined

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