
spMats v7.02a - Updated May 2010

Updated user documentation and resolved miscellaneous license activation issues.

spMats v7.02 – Updated June 2009

Resolved several display, help system and results printing related issues, improved data file saving, naming, and backup.

spMats v7.00 – Upgraded April 2009

Code Features:

1. Added support for ACI 318-08 design standard in English and Metric units
2. Improved support for CSA A23.3-04 design standard
3. Updated Lambda factor calculations for lightweight concrete for consistency with ACI and CSA standards as well as other programs in StructurePoint's suite.

Enhancements:

1. Provided export capability of program views to DXF files for easier integration with drafting and modeling software.
2. Provided easier and faster access to software manual directly from the Help menu.
3. Enhanced output to provide additional analysis details of foundation piles in tension.
4. Moved the “include self-weight” check box to the load combinations window. For convenience.
5. Added ability to display labels for subset of nodes assigned with loads, piles or restraints.
6. Enhanced output by including an option for project header and improved output layout.
7. Improved grid line manipulation and numbering when lines are deleted and consistently allowed 3 decimal places for manual entry and generation of grid line coordinates.
8. Added feature to graphically illustrate magnitude and location of applied loads.
9. Added feature to show nodal coordinates in lieu of node labels.

10. Renamed pcaMats, also formerly known as PCAMATS, as **spMats** to better relate and support the registered trade name of the publisher, StructurePoint, formerly PCA's Engineering Software Group.

Resolved Issues:

1. Corrected a feature to allow print analysis results for a selected range of nodes and elements.
2. Improved the ability to open certain model files created with version 5.20 of spMats.
3. Addressed the "converting results" error in certain foundation model files.
4. Addressed negative impact of double clicking the run button on the data files.
5. Modified input data file to save defined model general information.
6. Corrected the input echo text report to show the magnitude of point and surface loads as well as provided certain missing print blocks.
7. Corrected situations where punching shear is not performed or results are not displayed for certain ultimate load combinations.
8. Corrected situations when moment contours display led to program run error in certain model files.
9. Corrected situation where contour map labels were missing when running in Windows Vista.
10. Improved and updated the program manual.

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pcaMats v6.51 – Updated March 2008

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1. Resolved issue with English unit values displayed on contour maps when metric system was selected

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pcaMats v6.50 – Upgraded February 2008

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Code Features:

1. Added support for ACI 318-05 design standard
2. Added support for CSA A23.3-04 design standard

Enhancements:

1. Provided capability to display column and piles to scale in 3D view and assignment windows
2. Improved visualization of slab by adding thickness boundary lines
3. Expanded all first level nodes in the GUI tree view for easier navigation
4. Improved text and graphical print capability
5. Provided keyboard shortcuts to commonly used menu commands
6. Provided additional settings for 3D View and 2D View (assign and contour) graphical windows
7. Provided pop-up menu shortcuts to some of the graphical window settings
8. Provided capability to print and copy to clipboard selected portions of text results
9. Provided default file name for printing results to a file
10. Save Results option is now checked by default
11. Provided capability to check for program updates online from Windows or program environment
12. Revised contour maps color assignment for moment envelope and reinforcement to reflect the upper bound

Resolved Issues:

1. Resolved issue with resetting object colors to black
2. Resolved issue with incorrect pile reactions with large number of piles definitions
3. Resolved issue with inconsistent node numbering in some cases
4. Resolved issue with shifted load labels in the GUI tree view
5. Added missing column and pile information in the printout
6. Removed *.msg files from the list of recently opened files under File menu
7. Corrected calculation of steel area in transition zone for ACI codes

8. Corrected maximum reinforcement ratio for CSA standards
9. Eliminated unnecessary resetting of 3D view window
10. Eliminated punching shear results from service load combinations results

pcaMats V6.10 - 06-10-2005

1. The lshost.txt file now accepts multiple entries. Each entry has to be on a separate line. License manager will try these entries one by one until a valid license is found. As an entry, server name, server IP address, “no-net” or “LAN” can be used. “no-net” means that a standalone license will be used if it is available. “LAN” will make the license manager to look for a license in the local area network (within the subnet only).
2. The Help|About box displays now detailed licensing information including: license type, license expiration, license server, and license ID.
3. The order of soil definitions in the Define|Properties|Soil window now always matches the order of soil selections in the Add/Edit Pile window. Mismatch could affect the calculated value of pile constant.
4. Rx and Ry are no longer implicitly assigned to an unrestrained node from which a Dz restraint is attempted to be removed. This implicit assignment was not visible in the graphical interface but could be noticed in the text output.
5. Correct spring labels and constants are now displayed in table A7.
6. The limit value for all loads has been increased up to 1.0E09.
7. The value of the automatically calculated Young modulus of concrete for CSA code and metric units is now correctly displayed in MPa instead of ksi.
8. The default Object colors in the Options|Display menu are now correctly initialized during installation.

pcaMats V6.09 - 04-28-2004

Bug fixed and improvements:

1. Contour maps for all load combinations are now displayed correctly.
2. The values displayed in the moment contour maps for SI unit system have been corrected to show as kN-m/m instead of kN-m/ft.
3. The values displayed in the reinforcement contour maps for SI unit system have been corrected to show as mm²/m instead of mm²/ft.
4. The missing MODIFY button has been added to permit direct modification of pile spring constants.
5. The About box is displayed at startup when program is detecting a license.

pcaMats V6.08 - 02-16-2004

Bug fixed and improvements:

1. Minor corrections in the interface including:
 - Grid color can be changed;
 - File names are no longer capitalized;
 - Default file name is provided in the Save As dialog box;
 - The About dialog box displays licensing information.
2. A bug causing incorrect node numbering in some rare cases has been fixed.
3. Handling grid line coordinate changes has been improved in order to keep assigned thickness, load, supports, etc.
4. E-licensing (licensing through the internet) capability is added.
5. Quick start up guide ("pcaMats Quick Start Guide.pdf") has been updated to provide information on e-licensing.

pcaMats V6.07 - 10-22-2003

Bug fixed and improvements:

1. Surface loads defined in metric system are now interpreted correctly.
2. The precision of unit conversion factors is increased.

3. A bug has been fixed which in versions 6.05 and 6.06 would produce temporary files (*.dat) in the data folder when there were piles defined in the problem. All the files named like "DataName.MA6 - PILE= # LC= #.dat" can be safely removed from the data folder.
4. Manual file ("pcaMats manual.PDF") has been updated.

pcaMats V6.06 (10-01-2003)

Bug fixed and improvements:

1. pcaMats can be run from a network server.
2. Temporary files are now stored in local system temporary directory instead of tmp subfolder of the program folder.
3. Punching shear results are now saved and read correctly.

Important: Data file format has changed. pcaMats v 6.06 will read data files from previous versions but previous versions will not read data files saved by version 6.06 and next.

4. A bug has been fixed that in certain cases would crash pcaMats when "Parsing results" during analysis.
5. Help file has been updated.

pcaMats V6.05 (09-18-2003)

Bug fixed and improvements:

1. Bugs have been fixed that would change load location after deleting or adding load entries in the define menu.
2. Bug has been fixed that would crash pcaMats when "Parsing results" during analysis
3. Multiple item delete bug has been corrected.

4. Node numbering bug has been fixed.
5. A “No” button has been added to Spring/Pile overwrite message box
6. Number of nodes is explicitly checked not to exceed 10,000.
7. Improved punching shear check procedure has been implemented.