

Update:
FAA Pavement Design Procedures



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Update: FAA Pavement Design Procedures

- LEDFAA version 1.3
- FEDFAA 1.0 Beta
- FEAFAA 1.0 (3D Finite Element Analysis)
- Airport Pavement Design and Evaluation (AC 150/5320-6D) Change 3



LEDFAA 1.3

- Update to LEDFAA version 1.2
- Major changes:
 - Aircraft library updated to include A380 and A340-500/600 aircraft families.
 - Revised failure criteria for flexible pavements.
 - Metric units option.
 - Replaced JULEA with FAA layered elastic program LEAF.



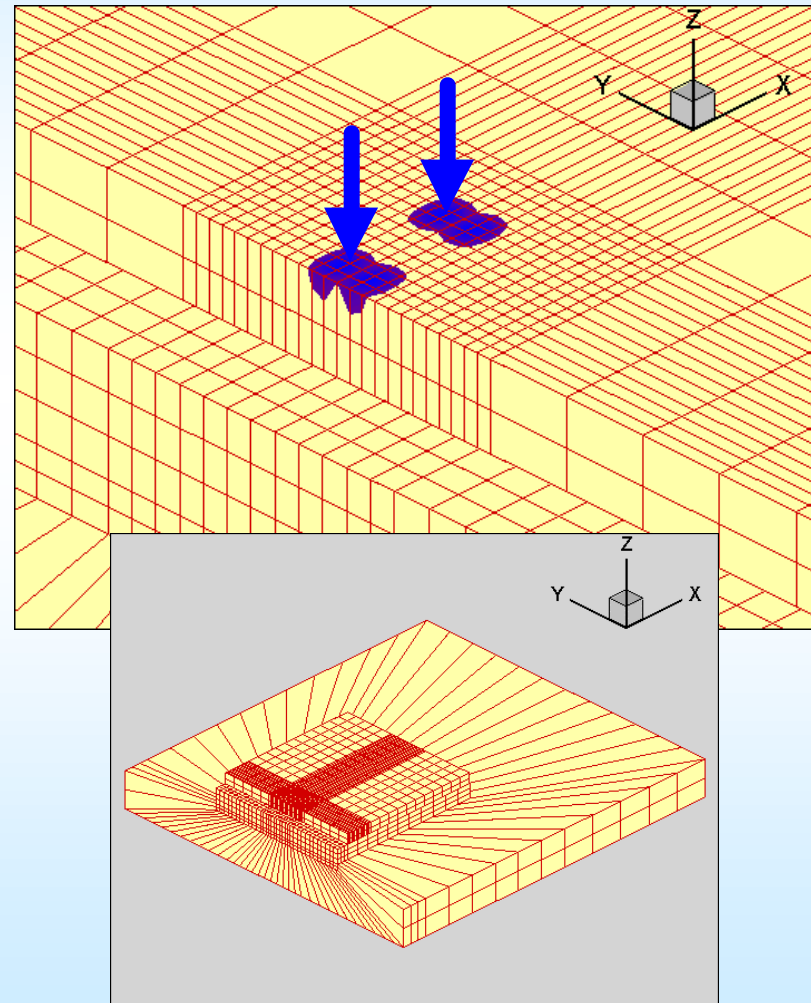
FEDFAA 1.0 Beta

- What it is:
 - Test version of a new FAA thickness design program.
 - **3D finite element** for rigid pavements/overlays
 - **LEAF** for flexible pavements/overlays.
 - Not an official FAA design standard at this time.
- FAA is seeking feedback from users.
- Requires .NET framework (free download).



FEAFAA 1.0

- 3D Finite Element - Rigid Pavements
- Stand-alone analysis tool - not for design.
- Uses the NIKE3D finite element program (modified by FAA).
- 9 slab model with overlay capability.





Downloads

- Web page for program downloads:

<http://www.airporttech.tc.faa.gov/naptf/download/index1.asp>



Airport Pavement Design and Evaluation, Change 3 (AC 150/5320-6D)

- Change permits LEDFAA to be used as an alternate design method.
- Previously reserved for use only when the Boeing B-777 was in the design mix.
- Change 3 open for comment until 23-Jan-04.
- Draft AC can be downloaded from:

<http://www2.faa.gov/arp/publications/acs/draftacs.cfm>