

5 April 2018

Joe Murphy's ASTM and LRFD reports and programs (Personal use only!) are all in joeinmadison.com/lrfd subdirectory

Note: filenames are case sensitive.

- <http://joeinmadison.com/lrfd> will index of all of my files in /lrfd Open file links in new window!
- <http://joeinmadison.com/lrfd/readme1.pdf> will give explanation of some of index. Not listed here.
- <http://joeinmadison.com/lrfd/wdist.html> Javascript and HTML, use on server or download converts mean, cov to alpha, eta and vice versa. Finds $\Gamma(x)$ and $\Gamma(1 + x)$.
- <http://joeinmadison.com/lrfd/wgraph.html> Javascript and HTML, use on server or download fits a 2-parameter weibull distribution to data (both complete distributions and tail fit) and shows a graph using Google Charts.
- http://joeinmadison.com/lrfd/MOR_2X10.txt example unranked data set to be used with [wgraph.html](http://joeinmadison.com/lrfd/wgraph.html)
- <http://joeinmadison.com/lrfd/wexample.pdf> example output using [MOR_2X10.txt](http://joeinmadison.com/lrfd/MOR_2X10.txt) and [wgraph.html](http://joeinmadison.com/lrfd/wgraph.html)
- <http://joeinmadison.com/lrfd/index.php> index all files in joeinmadison.com/lrfd subdirectory
- <http://joeinmadison.com/lrfd/readme2.pdf> This file.
- <http://joeinmadison.com/lrfd/NBS577js.html> NBS SP 577 Appendix F FORTRAN reliability program ported by me to Javascript HTML program. Download and run with an NBS577 format input file.
- <http://joeinmadison.com/lrfd/NBS577js.pdf> This pdf gives an screen shot of the program, a Table of what the Distribution Parameters are, for each distribution, and a Table of what distributions go with each load. The third Table has some load combinations. There are 3 input.txt files with results attached so users can check if the program is working properly.
- <http://joeinmadison.com/lrfd/jfmjz.txt> Input to [NBS577js.html](http://joeinmadison.com/lrfd/NBS577js.html) which compares exactly with output I have from John Zahn which compared his FORTRAN output with mine in the 90's.
- <http://joeinmadison.com/lrfd/tab1A12.txt> Input to [NBS577js.html](http://joeinmadison.com/lrfd/NBS577js.html) in the above pdf gives KR for Table A1.2, though only 5 CVs and $\beta = 2.44$. $KR = PHIC/pf(1)$.
- http://joeinmadison.com/lrfd/kr_beta.txt Input to [NBS577js.html](http://joeinmadison.com/lrfd/NBS577js.html) comparing β for exact ϕ_s and ϕ_s rounded to nearest 0.05.
- <http://joeinmadison.com/lrfd/correction1.pdf> Correction to [jfmreport.pdf](http://joeinmadison.com/lrfd/jfmreport.pdf) May 2017 typo in gamma distribution CDF. In developing [NBS577js.html](http://joeinmadison.com/lrfd/NBS577js.html) I implemented the incomplete gamma "gamin" as spelled out on pages 24 and 28 of the [jfmreport.pdf](http://joeinmadison.com/lrfd/jfmreport.pdf). I discovered the documentation is wrong. I have checked all my programs and the gamin subroutines are correct. It is only in the documentation that it is wrong. In the report I had put a 1 in the factor when it should not be there. This pdf shows my derivation of the incomplete gamma function and gamma CDF from Kummer's confluent hypergeometric function. Also are corrected pages 24 and 28.
- <http://joeinmadison.com/lrfd/filesinfo.pdf> Combination of [index.php](http://joeinmadison.com/lrfd/index.php), [readme1.pdf](http://joeinmadison.com/lrfd/readme1.pdf) and [readme2.pdf](http://joeinmadison.com/lrfd/readme2.pdf).

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