

```
*****
*  FORTRAN 77 Program for 3D Fault Analysis      *
*  (forward modelling)                          *
*  Developed by S. Jason Zhao, 1999-2002.      *
*****
```

Minor restrictions:

-
1. The program was developed for the purpose of scientific research only, and should not be used for any commercial purposes;
 2. The program should not be distributed to others without permission of the author;
 3. The program can be freely modified but it is preferable to quote the author of the original program if possible;
 4. Please report any bugs and suggestions to:
Email: zhao@jamstec.go.jp
subduction99@netscape.net
-

0. A list of files in this package

=====

-readme.txt	this file
-okadn.for	source file
-okadn.dat	data file

1. Introduction

=====

okadn is a FORTRAN program for analyzing elastic response of the 3D flat earth to faulting/dislocation.

2. Main features

=====

Input: fault parameters (n-faults) and computational points (coordinates);
output: displacement and stress at the points.

Note:

Coordinate system used: X-axis is northward; Y-axis is eastward.

Input coordinates of the faults and computational points according to the above coordinate system.

3. Compile/link the program under DOS/Windows

Need a FORTRAN 77/90 compiler to compile/link the source file okadn.FOR, and produce an executable file: okadn.exe.

4. Running the program

After running the program, a file named okadn.out will be produced.
Be sure delete or rename this file before a now run.

5. Acknowledgments and references

This program was developed based on the following researchers' works or programs:

Okada Y., Surface deformation due to shear and tensile faults in a half-space,
Bull. Seism. Soc. Am., 75, 1135-1154, 1985.

Okada Y., Internal deformation due to shear and tensile faults in a half-space,
Bull. Seism. Soc. Am., 82, 1018-1040, 1992.

6. Correspond to:

Jason Zhao
Email: zhao@jamstec.go.jp
subduction99@netscape.net

7. Warranty Disclaimer

THE PROGRAM IS PROVIDED AS IS WITHOUT WARRANTY OF ANY KIND.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY CONSEQUENTIAL,
INCIDENTAL, DIRECT, INDIRECT, SPECIAL, PUNITIVE, OR OTHER DAMAGES
WHATSOEVER
(INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS,
BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION, OR OTHER
PECUNIARY LOSS) ARISING OUT OF THE USE OF OR INABILITY TO USE
THE PROGRAM.
