

## Documentation of Code\_Aster

The case-tests whose number is lower than 100 are from the “*Guide of validation of the software packages from structural analysis*”, French Company of Mechanics - AFNOR.

V0: See BASE GIVEN VALIDATION

[V0.01.001-A](#) MODEL01 - Titrate case test (Model of a document of validation)

[07/10/02]

*1 document*

V1: Data-processing tests (Performance...)

[V1.01.100-A](#) ZZZZ100 - Functions, tablecloths, formulas

[14/10/02]

[V1.01.101-A](#) ZZZZ101 - Validation of operators AFFE\_CARA\_ELEM and

[29/10/01]

POST\_ELEM

[V1.01.102-A](#) ZZZZ102 - To see accélérogramme and spectrum of oscillator

[16/01/97]

[V1.01.106-A](#) ZZZZ106 - Geometrical criteria in DEFI\_GROUP [U4.22.01]

[01/12/98]

[V1.01.111-A](#) ZZZZ111 - Validation of operator DEFI\_CABLE\_BP

[07/12/01]

[V1.01.112-A](#) ZZZZ112 - Roll under variable pressure. Validation of

[05/09/99]

LIRE\_PLEXUS

[V1.01.113-A](#) ZZZZ113 - Chaining 3D (R, théta) CYRANO3-Code\_Aster

[07/11/01]

[V1.01.118-A](#) ZZZZ118 - Test of nonregression INCLUDE\_MATERIAU

[16/11/01]

[V1.01.119-A](#) ZZZZ119 - PROJ\_CHAMP for surfaces in 3D

[09/02/00]

[V1.01.121-C](#) ZZZZ121 - Adaptation of grid with LOBSTER

[01/09/05]

[V1.01.126-A](#) ZZZZ126 - Validation of order CREA\_CHAMP

[15/10/01]

OPERATION: "ADZE"

[V1.01.127-A](#) ZZZZ127 - Validation of key word LIAISON\_MAIL of the order

[05/02/02]

AFFE\_CHAR\_MECA

[V1.01.128-A](#) ZZZZ128 - Validation of orders LIRE\_TABLE and IMPR\_TABLE [01/10/03]

[V1.01.144-A](#) SENSM01 - Sensitivity in static mechanics, data-processing control

[03/06/03]

[V1.01.145-B](#) SENSM02 - Sensitivity to the pressure imposed in linear mechanics

[16/05/03]

[V1.01.150-A](#) SENSM03 - Sensitivity to the nodal forces imposed in mechanics

[19/08/02]

linear

[V1.01.151-A](#) SENST01 - Sensitivity in thermics, data-processing control

[23/09/02]

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[V1.01.152-A](#) SENST02 - Sensitivities compared to the imposed temperature and to flow

[14/10/02]

normal

[V1.01.153-A](#) SENST03 - Sensitivities compared to a source and at the temperature

[14/10/02]

external

[V1.01.154-A](#) SENST04 - Sensitivities compared to the coefficient of exchange-wall and to

[14/10/02]

thermal conductivity

[V1.01.155-A](#) SENSM04 - Sensibility with the data materials in linear elasticity

[19/08/02]

orthotropic 2D

[V1.01.156-A](#) SENSM05 - Sensibility with the data materials in linear elasticity

[19/08/02]

orthotropic 3D

[V1.01.158-A](#) SENSD01A - Sensitivity to the loading and C.L in

[23/10/02]

DYNA\_LINE\_HARM

[V1.01.159-A](#) ZZZZ159 - Retiming of an elastoplastic law of behavior on one

[03/06/03]

tensile test

[V1.01.160-A](#) SENST05 - Sensitivities compared to voluminal heat and to

[14/10/02]

emissivity

[V1.01.161-A](#) ZZZZ161 - Exchange with the format MED, data-processing control

[03/06/03]

[V1.01.162-A](#) SENSD02 - Sensitivity to materials in harmonic dynamics

[25/11/05]

isotropic 3D

[V1.01.163-A](#) SENSD03 - Sensitivity to materials in harmonic dynamics

[23/10/02]

isotropic 2D

[V1.01.164-A](#) ZZZZ164 - Validation of the key words TRANSLATION, ROTATION,

[14/10/02]

LOCATE and SCALE of order MODI\_MAILLAGE

[V1.01.165-A](#) ZZZZ165 - LIRE\_RESU with format "IDEAS"

[23/10/02]

[V1.01.166-A](#) ZZZZ166 - Calculation of flow in thermics

[03/06/03]

[V1.01.170-A](#) SENSM06 - Sensitivity to the parameters materials in linear elasticity

[02/06/03]

isotropic

[V1.01.171-A](#) SENSD04 - Sensitivity to the loading and C.L in dyna\_line\_tran

[07/10/03]

[V1.01.172-A](#) SENSD05 - Sensitivity to materials in isotropic transitory dynamics [07/10/03]

3D

[V1.01.173-A](#) SENSD06 - Sensitivity to materials in isotropic transitory dynamics [07/10/03]

2D

[V1.01.178-A](#) SENSM08 - Sensitivity to the parameters material in elastoplasticity

[27/11/03]

(linear isotropic work hardening)

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[V1.01.179-A](#) SENSM09 - Infinite elastoplastic cylinder under pressure: sensitivity

[20/02/04]

with the parameters material

[V1.01.181-A](#) SENSM10 - Elastoplastic elbow under pressure: sensitivity by

[26/04/04]

report/ratio with the loading and material

[V1.01.182-A](#) SENSM11 - Elastoplastic axisymmetric structure in inflection:

[26/04/04]

sensitivity compared to the loading and material

[V1.01.184-A](#) SENSD07 - Sensitivity in nonlinear dynamics 3D (VON-MISES

[25/11/05]

ISOT)

[V1.01.185-A](#) ZZZZ185 - Validation of order MODI\_MAILLAGE associated with [01/01/04]

SYMMETRY and of order PROJ\_CHAMP associated with

DISTANCE\_MAX

[V1.01.188-A](#) SENSD08 - Sensitivity of modes suitable for the parameter material

[14/10/04]

[V1.01.189-A](#) ZZZZ189 - Circumferential orientation by a loop Python

[22/07/05]

[V1.01.205-A](#) ZZZZ205 - Calculation of the kinetic energy of a rectangular plate

[02/11/05]

[V1.01.207-A](#) SENSD09 - Sensitivity of clean modes of a beam POU\_D\_E by

[01/09/05]

report/ratio with the parameters material

[V1.01.214-A](#) SENSD10 - Sensitivity of clean modes of a beam simply

[07/11/05]

supported compared to the parameters material

[V1.04.101-A](#) FETI001 - Validation of the basic architecture of a calculation FETI

[02/11/05]

[V1.04.102-A](#) FETI002 - Validation of the basic architecture of a calculation FETI with

[02/11/05]

rigid modes

[V1.04.103-A](#) FETI003 - Validation of a calculation FETI with simple Dirichlet

[02/11/05]

[V1.04.104-A](#) FETI004 - Validation of a calculation FETI with generalized Dirichlet

[02/11/05]

[V1.04.105-A](#) FETI005 - Validation of a calculation FETI with simple Dirichlet with

[02/11/05]

the interface

[V1.10.102-A](#) YYYY102 - Eigen frequencies of a paddle of ventilator

[16/01/97]

[V1.10.104-A](#) YYYY104 - Prismatic test-tube fissured in 3D

[16/01/97]

[V1.10.108-D](#) YYYY108 - Test-tube CTJ25

[16/01/97]

[V1.10.110-B](#) YYYY110 - Reactor vessel. Modal analysis

[01/12/98]

[V1.10.119-A](#) ELSA01 - Nonlinear seismic analysis of a line of piping

[22/11/01]

*56 documents*

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V2: Linear dynamics

[V2.01.002-E](#) SDLD02 - System mass-arises with 8 degrees of freedom

[01/12/98]

[V2.01.004-C](#) SDLD04 - Transitory response of a system mass-springs subjected to

[30/08/01]

an imposed acceleration

[V2.01.021-C](#) SDLD21 - System mass-arises to 8 ddl with viscous damping

[23/06/03]

[V2.01.022-C](#) SDLD22 - Transient of a system mass-arises to 8 ddl with

[17/02/04]

viscous shock absorber

[V2.01.023-B](#) SDLD23 - System of masses and springs under random excitation

[30/08/01]

[V2.01.025-B](#) SDLD25 - System mass-arises with viscous shock absorber

[28/11/96]

proportional (spectral answer)

[V2.01.027-C](#) SDLD27 - System mass-arises with 8 degrees of freedom with shock absorber [17/02/04]

viscous nonproportional (analyzes modal)

[V2.01.029-C](#) SDLD29 - Transient mass-arises to 8 viscous ddl and damping

[01/12/98]

nonproportional

[V2.01.030-A](#) SDLD30 - Spectral seismic response of a system 2 masses and 3

[05/03/04]

springs multimedia

[V2.01.101-B](#) SDLD101 - Simple oscillator under random excitation

[30/08/01]

[V2.01.102-B](#) SDLD102 - Under-structuring transitory: System 3 masses-4 springs

[01/12/98]

[V2.01.103-B](#) SDLD103 - Seismic response of a system 3 masses and 4 springs multi- [30/08/01]

supported

[V2.01.104-A](#) SDLD104 - Extrapolation of local measurements on a complete model

[04/03/02]

(discrete)

[V2.01.313-A](#) SDLD313 - System masses spring with 2 DDL with damping

[23/06/03]

hysteretic

[V2.01.320-A](#) SDLD320 - Transitory response of a free system of 3 masses and 2  
[01/03/04]

springs under harmonic excitation

[V2.01.321-A](#) SDLD321 - Transitory dynamic response of a harmonic oscillator [17/02/04]

with variable damping

[V2.01.325-A](#) SDLD325 - Transitory dynamic response of a system mass-arises  
[17/02/04]

deadened to 2 ddl

[V2.02.001-C](#) SDLL01 - Short beam on simple supports  
[03/06/96]

[V2.02.002-B](#) SDLL02 - Embed-free slim beam, folded up on it even  
[19/08/02]

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[V2.02.004-C](#) SDLL04 - Beam coupled to a system mass-arises  
[03/06/96]

[V2.02.006-C](#) SDLL06 - Transitory response of a embed-free post  
[14/09/01]

[V2.02.008-C](#) SDLL08 - Fit latticework on plane beams  
[03/06/96]

[V2.02.009-A](#) SDLL09 - Beam of rectangular section variable (embed-free)  
[03/06/96]

[V2.02.010-C](#) SDLL10 - Beam of rectangular section variable (embed-embedded)  
[03/06/96]

[V2.02.014-A](#) SDLL14 - Modes of vibration of a thin elbow of piping  
[19/08/02]

[V2.02.015-B](#) SDLL15 - Embed-free beam, with mass or offset inertia  
[03/06/96]

[V2.02.023-B](#) SDLL23 - Embed-free beam subjected to a seism (answer  
[28/11/96]

spectral)

[V2.02.100-D](#) SDLL100 - Transitory dynamic response of a beam in traction

[01/12/98]

simple

[V2.02.101-B](#) SDLL101 - Vibration of a beam with prestressings

[28/11/96]

[V2.02.102-B](#) SDLL102 - Gantry subjected to electrodynamic strains

[13/01/97]

[V2.02.104-B](#) SDLL104 - Structures primary education and secondary subjected to an excitation

[30/08/01]

random

[V2.02.105-B](#) SDLL105 - Pipe subjected to sources of random fluid excitations

[30/08/01]

[V2.02.106-B](#) SDLL106 - Beam subjected to a random excitation distributed

[29/08/00]

[V2.02.108-A](#) SDLL108 - "Table has coffee" of NEUBERT

[28/11/96]

[V2.02.113-B](#) SDLL113 - dynamic Under-structuring transitory: beam in traction [18/02/00]

simple

[V2.02.118-A](#) SDLL118 - Beam subjected to an axial excitation fluid-rubber band

[01/03/04]

[V2.02.130-A](#) SDLL130 - Seismic response of a concrete beam reinforced (section

[15/10/03]

rectangular) with linear behavior

[V2.02.131-A](#) SDLL131 - Seismic calculation of a piping VVP. Comparison Aster

[05/03/04]

SYSPIPE

[V2.02.132-A](#) SDLL132 - Clean modes of a frame in multifibre beams

[15/04/03]

[V2.02.134-A](#) SDLL134 - Method of Connors for the analysis of the behavior

[06/10/05]

vibratory of the tubes of Steam Generator



[V2.02.311-A](#) SDLL311 - Transitory dynamic response of a beam in traction under [13/06/03]

imposed displacement

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[V2.02.400-A](#) SDLL400 - Beam in vibration with center of excentré torsion

[12/04/02]

[V2.02.401-A](#) SDLL401 - Tilted right beam with 20°, subjected to efforts

[01/12/98]

sinusoidal

[V2.02.403-A](#) SDLL403 - Vibrations of a pendulum in rotation

[04/10/04]

[V2.03.001-C](#) SDLS01 - Thin square plate, free or embedded on an edge

[14/03/96]

[V2.03.002-C](#) SDLS02 - Plate mean rhombus embedded on an edge

[14/03/96]

[V2.03.003-A](#) SDLS03 - Thin rectangular plate simply pressed on the edges [14/03/96]

[V2.03.004-B](#) SDLS04 - Under-structuring cyclic: Annular thin section

[01/12/98]

embedded in its hub

[V2.03.007-C](#) SDLS07 - Clean modes of a thin spherical envelope

[01/12/98]

[V2.03.100-C](#) SDLS100 - Studies of grid on a thin square plate

[14/03/96]

[V2.03.101-A](#) SDLS101 - Thin rectangular plate on elastic mattress

[01/12/98]

[V2.03.102-A](#) SDLS102 - Free vibrations of a paddle of compression

[01/12/98]

[V2.03.103-A](#) SDLS103 - Coaxial hulls under annular flow

[09/10/01]

[V2.03.106-A](#) SDLS106 - Modal calculation of plate in under-structuring with base of

[01/03/04]

Ritz

[V2.03.108-A](#) SDLS108 - Use of option RIGI\_PARASOL within the framework of one [30/08/01] study EPR

[V2.03.109-B](#) SDLS109 - Eigen frequencies of a thick cylindrical ring [06/02/04]

[V2.03.114-A](#) SDLS114 - Calculation of the stress intensity factors of a plate [07/11/05]

fissured by modal recombination

[V2.03.300-A](#) SDLS300 - Air cooler subjected to an excitation ground [25/10/04]

[V2.03.501-A](#) SDLS501 - Free vibrations of a corrugated sheet [29/10/01]

[V2.03.502-A](#) SDLS502 - Square plate “solid” simply supported [04/09/02]

[V2.03.503-A](#) SDLS503 - Vibrations of inflection of a sandwich beam [01/10/01]

[V2.04.100-A](#) SDLV100 - Vibration of a slim beam of rectangular section [31/01/00]

variable (embed-free)

[V2.04.111-A](#) SDLV111 - Homogenisation of a network of beams in a fluid [02/12/96]

incompressible

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[V2.04.120-A](#) SDLV120 - Absorption of a wave of compression in a bar [09/10/01]

rubber band

[V2.04.121-A](#) SDLV121 - Wave planes shearing in an elastic column [09/10/01]

[V2.04.122-A](#) SDLV122 - Extrapolation of local measurements on a complete model [04/03/02]

(3D)

[V2.04.401-A](#) SDLV401 - Free-free full sphere

[25/10/04]

[V2.05.001-C](#) SDLX01 - Inflection of a symmetrical gantry

[15/05/96]

[V2.05.002-C](#) SDLX02 - Piping: Problem of Hovgaard

[15/05/96]

[V2.05.003-D](#) SDLX03 - Assembly of braced thin rectangular plates

[23/01/00]

[V2.05.100-A](#) SDLX100 - Transitory response of a plate to a field of pressure

[17/02/04]

resulting from ENSIGHT

[V2.05.301-B](#) SDLX301 - Dissymmetrical building with floor-columns subjected to one

[26/09/05]

horizontal excitation

[V2.05.302-A](#) SDLX302 - Fixed beam and masses concentrated subjected to a force

[30/08/01]

random transverse

[V2.06.100-A](#) SHLL100 - Harmonic response of a bar per under-structuring

[29/05/96]

dynamics

[V2.06.101-B](#) SHLL101 - Right beam. Analyze harmonic

[01/12/98]

[V2.06.200-A](#) SHLS200 - Nonparametric probabilistic model: Answer

[04/05/06]

harmonic of a under-structured plate

[V2.07.100-C](#) SHLV100 - Harmonic response of a hollow roll in deformations

[13/03/96]

plane

*77 documents*

V3: Linear statics

[V3.01.010-A](#) SSSL10 - Gantry with side connections

[04/06/96]

[V3.01.011-E](#) SSSL11 - Lattice of pin jointed struts under concentrated loading

[08/02/00]

[V3.01.012-A](#) SSSL12 - Lattice of bars under 3 requests

[04/06/96]

[V3.01.014-A](#) SSSL14 - Plane gantry articulated in foot

[21/03/02]

[V3.01.100-B](#) SSSL100 - Symmetrical structure of beams with an elbow

[04/06/96]

[V3.01.101-C](#) SSSL101 - Piping: problem of HOVGAARD

[29/10/01]

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[V3.01.102-D](#) SSSL102 - Fixed beam subjected to unit efforts

[20/12/02]

[V3.01.103-A](#) SSSL103 - Elastic buckling of an angle

[04/06/96]

[V3.01.104-B](#) SSSL104 - Initial deformations in a right beam

[14/09/00]

[V3.01.105-B](#) SSSL105 - Elastic buckling of a structure in L

[28/10/03]

[V3.01.106-B](#) SSSL106 - Right pipe

[05/01/04]

[V3.01.107-A](#) SSSL107 - Validation of MACRO\_CARA\_POUTRE

[02/06/03]

[V3.01.108-A](#) SSSL108 - Discrete elements 2D

[19/08/02]

[V3.01.110-A](#) SSSL110 - System of 3 bars out of U under actual weight

[23/09/02]

[V3.01.111-A](#) SSSL111 - Static response of a reinforced concrete beam (section in T)

[05/11/02]

with linear behavior

[V3.01.112-A](#) SSSL112 - Arch circular under uniform pressure

[20/08/02]

[V3.01.114-A](#) FORMA06 - TP beam of the formation post treatment

[14/10/02]

[V3.01.116-A](#) SSSL116 - Lattice reinforced 3D

[23/09/03]

[V3.01.400-A](#) SSSL400 - Non-prismatic beam, subjected to specific efforts

[03/05/02]

or distributed

[V3.01.402-A](#) SSSL402 - Dynamometric ring

[01/12/98]

[V3.01.403-A](#) SSSL403 - Buckling of a beam under the effect of its actual weight

[22/01/98]

[V3.01.404-A](#) SSSL404 - Buckling of an arch

[23/09/02]

[V3.01.501-A](#) SSSL501 - Piping VVP. Comparison Aster-SYSPIPE

[16/02/02]

[V3.02.100-B](#) SSLP100 - Stick in static substructure

[16/04/96]

[V3.02.101-D](#) SSLP101 - Rate of refund of energy in plane constraints

[11/05/04]

[V3.02.102-A](#) SSLP102 - Rate of refund of energy with initial deformations

[16/04/96]

(Lagrangian propagation)

[V3.02.103-A](#) SSLP103 - Calculation of the coefficients of intensity of constraints KI and KII

[16/04/96]

for a circular plate fissured in linear elasticity

[V3.02.105-A](#) SSLP105 - Excavation of a circular tunnel in an elastic solid mass

[09/09/03]

linear

[V3.02.303-A](#) SSLP303 - Plate cantilever charged at its end

[23/09/02]

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[V3.02.304-A](#) SSLP304 - Orthotropic square plate in uniaxial traction out of the axes

[12/12/02]

of orthotropism

[V3.02.305-A](#) SSLP305 - Thin disc in support under concentrated loading

[23/09/02]

[V3.02.310-A](#) SSLP310 - Biblio\_18. Crack pressurized in an unlimited plane field

[05/11/02]

[V3.02.311-A](#) SSLP311 - Biblio\_65. Fissure central oblique in a plate

[05/11/02]

rectangular finished, with two materials, subjected to uniform traction

[V3.02.313-A](#) SSLP313 - Crack inclined in an unlimited plate, subjected to one

[15/10/01]

uniform traction ad infinitum

[V3.03.007-A](#) SSLS07 - Thin cylinder under uniform axial loading

[01/10/03]

[V3.03.009-B](#) SSLS09 - Thin cylinder under actual weight

[02/11/05]

[V3.03.020-D](#) SSLS20 - Cylindrical hull pinch on free board

[01/12/98]

[V3.03.027-C](#) SSLS27 - Bored or bent thin section

[15/05/96]

[V3.03.100-C](#) SSLS100 - Plate circular embedded subjected to a uniform pressure

[22/12/98]

[V3.03.101-D](#) SSLS101 - Plate circular posed subjected to a uniform pressure

[05/01/04]

[V3.03.104-C](#) SSLS104 - Cylindrical hull pinch with diaphragm

[01/12/98]

[V3.03.105-D](#) SSLS105 - Doubly gripped hemisphere

[03/11/03]

[V3.03.107-A](#) SSLS107 - Cylindrical panel subjected to its own weight

[05/10/98]

[V3.03.108-B](#) SSLS108 - Helicoid hull under loading concentrated

[03/11/03]

[V3.03.109-A](#) SSLS109 - Plate in traction made up of three tablecloths of reinforcements

[21/03/02]

(Model ROASTS)

[V3.03.110-A](#) SSLS110 - Stability of a compressed square plate

[03/01/00]

[V3.03.111-A](#) SSLS111 - Simple offsetting of plate

[19/09/02]

[V3.03.112-A](#) SSLS112 - Offsetting of composite plates

[19/09/02]

[V3.03.113-A](#) SSLS113 - Offsetting of homogenized plates

[23/09/02]

[V3.03.114-A](#) SSLS114 - Not regression on quarter of ring cylindriqua

[03/11/03]

[V3.03.115-A](#) SSLS115 - Composite square plate under uniform pressure

[23/10/02]

[V3.03.116-A](#) SSLS116 - Membrane loading of an offset plate

[19/08/02]

[V3.03.117-A](#) SSLS117 - Offsetting of nonsymmetrical plates

[19/08/02]

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[V3.03.118-A](#) SSLS118 - Square plate posed subjected to a sinusoidal pressure

[16/11/01]

[V3.03.119-A](#) SSLS119 - Embedded hook subjected to a sharp effort at its end [05/02/02]

[V3.03.120-A](#) SSLS120 - Cylindrical thin hull under hydrostatic pressure

[12/12/02]

[V3.03.121-A](#) SSLS121 - Plate laminated subjected to elementary loadings

[19/08/02]

[V3.03.123-A](#) SSLS123 - Sphere under uniform external pressure

[03/11/03]

[V3.03.124-A](#) SSLS124 - Beam in inflection with various twinges

[06/11/03]

[V3.03.125-A](#) SSLS125 - Buckling of a free cylinder under external pressure

[28/10/03]

[V3.03.128-A](#) SSLS128 - CALC\_ELEM: Validation of option CRIT\_ELNO\_RUPT

[05/03/04]

[V3.03.131-A](#) DEMO006 - Optimization of the radius of curvature of a bent piping [05/09/05]

[V3.03.501-A](#) SSLS501 - Roll infinitely long subjected to two lines of load

[01/10/01]

[V3.03.502-A](#) SSLS502 - Orthotropic cylinder subjected to a line of load

[19/09/02]

[V3.03.503-A](#) SSLS503 - Plate laminated in antisymmetric inflection stacking

[17/06/02]

simply supported

[V3.03.504-B](#) SSLS504 - Composite square plate made up of 3 layers, subjected to

[23/09/02]

a loading doubly sinusoidal

[V3.04.004-E](#) SSLV04 - Hollow roll in plane constraints

[17/06/03]

[V3.04.007-D](#) SSLV07 - Parallelepiped under its own weight

[16/04/96]



[V3.04.100-D](#) SSLV100 - Roll in plane deformations

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[V3.04.104-B](#) SSLV104 - Beam in rotation

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[V3.04.105-A](#) SSLV105 - Stiffening centrifuges of a beam in rotation

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[V3.04.109-C](#) SSLV109 - Full cylinder in pressure nonuniform mode 1

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[V3.04.110-C](#) SSLV110 - Elliptic crack in an infinite medium

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[V3.04.111-A](#) SSLV111 - Estimator of error on a plate perforated in traction

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[V3.04.112-B](#) SSLV112 - Calculation of G by the Lagrangian method for a crack

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[V3.04.113-A](#) SSLV113 - Test of the estimator in residue on a hollow roll

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[V3.04.114-A](#) SSLV114 - Movement of solid bodies

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[V3.04.120-C](#) SSLV120 - Stretching of an orthotropic parallelepiped under its characteristic

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[V3.04.121-C](#) SSLV121 - Transverse isotropic parallelepiped under its own weight

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[V3.04.130-C](#) SSLV130 - Hollow roll into incompressible

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[V3.04.131-A](#) SSLV131 - Orthotropism in an unspecified reference mark

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[V3.04.134-B](#) SSLV134 - Fissure circular in infinite medium

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[V3.04.135-B](#) SSLV135 - Damage by tiredness under biaxial loading

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[V3.04.139-A](#) SSLV139 - Buckling of a circular plate subjected to a force of

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[V3.04.140-A](#) SSLV140 - Calculation of effective modules by a method Python

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[V3.04.301-A](#) SSLV301 - Cylindrical beam comforts under load linearly distributed [17/06/03]

[V3.04.303-A](#) SSLV303 - Roll embedded under actual weight and pressure

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[V3.04.306-A](#) SSLV306 - Beam 3D in imposed displacements

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[V3.04.307-A](#) SSLV307 - Cylinder obliques under uniform axial loading

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[V3.04.311-A](#) SSLV311 - Murakami 9.39. Fissure in quarter of ellipse to the corner of one

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thick disc in rotation

[V3.05.100-B](#) SSLX100 - Mix 3D. Hull. Beam in inflection

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[V3.05.101-A](#) SSLX101 - Pipe right modelled in hulls and beams

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[V3.05.102-B](#) SSLX102 - Piping bent in inflection

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[V3.06.100-A](#) SSLA100 - Infinite cylinder subjected to a field of voluminal forces and

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[V3.06.103-B](#) SSLA103 - Calculation of the withdrawal of desiccation and the endogenous withdrawal

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[V3.06.104-A](#) DEMO005 - Thin cylinder under hydrostatic pressure

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[V3.90.001-A](#) SSSL14 - Calculation of an elastic hyperstatic plane gantry

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V4: Transitory stationary thermics with metallurgy radiations

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[V4.01.004-A](#) TPLA04 - Release of power in a hollow roll

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[V4.01.005-A](#) TPLA05 - Cylindrical bar with density flux

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[V4.01.300-A](#) TPLA300 - Plate circular subjected to a voluminal heat source [20/09/02]

[V4.01.301-A](#) TPLA301 - Distribution of temperature in a short cylinder

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[V4.02.001-E](#) TPLL01 - Infinite plane wall in linear thermics

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[V4.02.100-B](#) TPLL100 - Anisotropic plane wall in stationary thermics

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[V4.02.101-B](#) TPLL101 - Joule effect heating of a hollow roll

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[V4.03.100-C](#) TPLS100 - Infinite plate subjected to antisymmetric flows

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[V4.03.101-C](#) TPLS101 - Infinite plate subjected to a symmetrical heat exchange

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with outside

[V4.03.302-A](#) TPLS302 - Distribution of temperature in a thin section

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[V4.04.006-A](#) TPLV06 - Release of power in a hollow sphere

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[V4.04.007-A](#) TPLV07 - Cubic orthotropic

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[V4.04.100-C](#) TPLV100 - Roll subjected to boundary conditions not

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[V4.04.101-B](#) TPLV101 - Stationary thermics with condition of exchange enters

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[V4.04.102-B](#) TPLV102 - Transport of heat by convection in a parallelepiped [03/06/03]

[V4.04.103-B](#) TPLV103 - Infinite cylinder in anisotropic stationary thermics

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[V4.04.105-A](#) TPLV105 - Stationary nonlinear thermics in pointer:

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[V4.04.106-A](#) TPLV106 - Stationary nonlinear thermics in pointer

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[V4.04.304-A](#) TPLV304 - Distribution of the temperature in a bar of section

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[V4.04.305-A](#) TPLV305 - Heat gradient in a cylinder (Fourier)

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[V4.05.002-A](#) TPLP02 - Orthotropic square

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[V4.05.300-A](#) TPLP300 - Rectangular plate: convection, imposed temperature

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[V4.05.301-A](#) TPLP301 - Square plate with imposed temperature distributed

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[V4.05.302-A](#) TPLP302 - Rectangular plate with imposed temperature

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[V4.05.303-A](#) TPLP303 - Distribution of the temperature in the section of a conduit

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[V4.21.001-F](#) TTLL01 - Thermal shock on an infinite wall

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[V4.21.100-A](#) TTLL100 - Thermal shock on a plane wall with condition of exchange

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[V4.21.303-A](#) TTLL303 - Thermal transfer in a bar with generation of

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[V4.22.002-B](#) TTNL02 - Thermal transient with phase shift

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[V4.22.003-A](#) TTNL03 - Thermohydration. Simulation of an adiabatic test

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[V4.22.302-A](#) TTNL302 - Infinite wall subjected to a constant flow with properties

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[V4.22.303-A](#) TTNL303 - Infinite wall subjected to a jump of temperature with properties

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[V4.23.100-A](#) TTLP100 - Wall exchange in transitory thermics

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[V4.23.300-A](#) TTLP300 - Thermal transfer in an orthotropic metal bar

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[V4.23.301-A](#) TTLP301 - Transfer of heat in a perforated plate

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[V4.23.302-A](#) TTLP302 - Thermal transfer in a Plane field with singularity

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[V4.23.303-A](#) TTLP303 - Transfer of heat in an orthotropic plate:

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[V4.23.304-A](#) TTLP304 - Transfer of heat in an orthotropic plate: flow

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[V4.25.001-A](#) TTLV01 - Sphere: heat transfer by convection

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[V4.25.301-A](#) TTLV301 - Parallelepiped subjected to a temperature imposed on its

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[V4.41.001-C](#) TPNA01 - Stationary axisymmetric problem with radiation

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[V4.41.300-A](#) TPNA300 - Tube generating heat with variable conductivity

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[V4.42.300-A](#) TPNL300 - Unidimensional transfer of heat with radiation

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[V4.43.001-A](#) TPNV01 - Hollow sphere: convection, radiation

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V5: Nonlinear dynamics

[V5.01.100-C](#) SDND100 - To release of a shoe rubbing with friction of the Coulomb type

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[V5.01.101-B](#) SDND101 - To release of a system masses spring with shock

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[V5.01.102-C](#) SDND102 - Seismic response of a system mass-arises nonlinear

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[V5.01.103-B](#) SDND103 - Post subjected to an axial dynamic stress

[30/08/01]

[V5.01.104-A](#) SDND104 - Calculation of the power of wear of a mass rubbing under

[16/05/03]

harmonic seismic excitation

[V5.01.110-A](#) SDND110 - To release of a mass deadened by a fluid blade

[11/06/96]

[V5.01.111-A](#) SDND111 - System masses spring with harmonic excitation and force

[11/06/96]

fluid blade

[V5.01.112-A](#) SDND112 - Fluid blade between two mobile masses

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[V5.01.120-A](#) SDND120 - Transitory response of an antiseismic device

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[V5.02.032-B](#) SDNL032 - Impact of a girder hinged on elastic support

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[V5.02.100-B](#) SDNL100 - Simple pendulum in great oscillation

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[V5.02.102-A](#) SDNL102 - Beam subjected to a field speed of wind

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[V5.02.103-B](#) SDNL103 - Dynamics of a gantry modelled by elements of

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[V5.02.104-A](#) SDNL104 - Under-structuring: beam in inflection shocking on a support [06/06/96]

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[V5.02.105-A](#) SDNL105 - Under-structuring: Shock of 3 beams between them

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[V5.02.111-B](#) SDNL111 - Impact of two beams

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[V5.02.111-C](#) SDNL111 - Impact of two beams

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[V5.02.130-A](#) SDNL130 - Seismic response of a concrete beam reinforced (section

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[V5.03.100-A](#) SDNV100 - Impact of a beam on a rigid wall

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[V5.03.103-A](#) SDNV103 - Impact of an elastoplastic bar of Taylor

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[V5.03.104-A](#) SDNV104 - Dynamic response of a rigid shoe rubbing subjected to one

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[V5.03.106-A](#) SDNV106 - Analyze with the eigenvalues in DYNA\_NON\_LINE

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[V5.03.107-A](#) SDNV107 - Plastic beam in dynamically condensed traction

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[V5.06.001-A](#) SDNS01 - Nonparametric probabilistic model - parametric of one

[01/07/03]

flexbeam with nonlocalised linearities of shock

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V6: Nonlinear statics

[V6.01.001-A](#) SSNA001 - Infinite cylinder under pressure (viscoelasticity CYRANO 3)

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[V6.01.100-A](#) SSNA100 - Tube of Bree: Method Zarka-Rack (ZAC)

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[V6.01.102-A](#) SSNA102 - Contact multicorps elastic

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[V6.01.103-A](#) SSNA103 - Chock of the parameters of the models of Weibull

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[V6.01.104-B](#) SSNA104 - Hollow roll subjected to a pressure, viscoelasticity

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[V6.01.105-A](#) SSNA105 - Hollow roll subjected to a pressure, viscoelasticity  
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[V6.01.106-A](#) SSNA106 - Hollow roll subjected to a behavior  
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[V6.01.108-A](#) SSNA108 - Models of Weibull and Rice and Tracey  
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[V6.01.111-A](#) SSNA111 - Indentation of a solid mass by a punch  
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Pooch) for the study of the steel-concrete connection: law JOINT\_BA  
[V6.01.113-A](#) SSNA113 - Notched sample in viscoplasticity  
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[V6.01.115-A](#) SSNA115 - Wrenching of a rigid reinforcement with elements with  
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[V6.01.116-A](#) SSNA116 - Triaxial compression test with the model of Hoek-Brown modified in  
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[V6.01.301-A](#) SSNA301 - Melts of pressurized thick tank  
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[V6.02.100-B](#) SSNL100 - Pose of a canton of line with two equal ranges  
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[V6.02.101-A](#) SSNL101 - Non-linear behavior of an element of armament of  
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[V6.02.102-B](#) SSNL102 - Non-linear behaviour of an assembly of angles

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[V6.02.103-A](#) SSNL103 - Beam fixed in great displacements subjected to one

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moment with the end

[V6.02.105-A](#) SSNL105 - Tally stayed

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[V6.02.106-C](#) SSNL106 - Elastoplastic beam in traction and pure inflection

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[V6.02.107-C](#) SSNL107 - Plate embedded subjected to an inflection by beams in

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contact with the free edge

[V6.02.108-B](#) SSNL108 - Connection tube-grid with friction of Coulomb

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[V6.02.110-A](#) SSNL110 - Nonlinear spring including of the friction of Coulomb

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[V6.02.111-A](#) SSNL111 - Three thermoelastoplastic bars perfect Von Mises

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[V6.02.112-A](#) SSNL112 - Bar subjected to a cyclic thermal loading

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[V6.02.114-A](#) SSNL114 - Heavy cable with thermal dilation

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[V6.02.115-A](#) SSNL115 - Beam cantilever in pure bending

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[V6.02.116-A](#) SSNL116 - Length of cable with gas insulation

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[V6.02.117-B](#) SSNL117 - Bend in inflection in elastoplasticity

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[V6.02.118-A](#) SSNL118 - Bar subjected to a field speed of wind

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[V6.02.119-A](#) SSNL119 - Static response of a concrete beam reinforced (section

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rectangular) with nonlinear behavior

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[V6.02.120-A](#) SSNL120 - Cyclic response of the law of behavior of the concrete

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[V6.02.122-B](#) SSNL122 - Beam cantilever Multifibre subjected to an effort

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[V6.02.123-A](#) SSNL123 - Buckling of a beam Multifibre

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[V6.02.125-A](#) SSNL125 - Traction of a fragile bar: damage with gradient

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[V6.02.126-A](#) SSNL126 - Elastoplastic buckling of a right beam

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[V6.02.127-B](#) SSNL127 - Tensile test with model CORR\_ACIER

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[V6.02.129-A](#) SSNL129 - Validation of laws VISC\_ISOT \_TRAC and

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VISC\_ISOT\_LINE on a tensile test

[V6.02.130-A](#) SSNL130 - Indeformable plate on a carpet of springs

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[V6.02.501-A](#) SSNL501 - Beam fixed at the two ends subjected to one

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[V6.02.502-B](#) SSNL502 - Beam in buckling

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[V6.02.503-A](#) SSNL503 - Elastoplastic ruin of a thin bent pipe

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[V6.03.005-A](#) SSNP05 - Test of traction-shearing (viscoelasticity CYRANO 3)  
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[V6.03.014-C](#) SSNP14 - Plate in traction-shearing. Von Mises (work hardening  
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kinematics)

[V6.03.015-C](#) SSNP15 - Plate in traction-shearing. Von Mises (work hardening  
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[V6.03.101-A](#) SSNP101 - Test of traction-shearing (viscoelasticity CYRANO 3)  
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[V6.03.102-A](#) SSNP102 - Rate of refund of energy for a plate notched in  
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[V6.03.108-B](#) SSNP108 - Concrete element prestressed in compression  
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[V6.03.109-A](#) SSNP109 - Cable of prestressing excentré in a right beam in  
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[V6.03.110-A](#) SSNP110 - Fissure edge in a rectangular plate finished in  
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[V6.03.111-A](#) SSNP111 - Passage of the points of Gauss to the nodes on elements  
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[V6.03.115-A](#) SSNP115 - Validation of LIRE\_RESU and DEPL\_CALCULE on  
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elastoplastic calculation of a perforated plate

[V6.03.116-B](#) SSNP116 - Coupling creep/cracking - uniaxial Traction  
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[V6.03.117-A](#) SSNP117 - Model of Rousselier in 2D - DP  
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[V6.03.118-B](#) SSNP118 - Validation of the element of joint in plane 2D  
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[V6.03.119-A](#) FORMA04 - Mechanical adaptive grid on a beam in inflection  
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[V6.03.120-A](#) FORMA05 - Thermomechanical adaptive grid on a cylinder head  
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[V6.03.121-C](#) SSNP121 - Integration of the terms of contact in 2D and 3D  
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[V6.03.122-A](#) SSNP122 - Traction. Model of Rousselier in versions local and not  
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[V6.03.123-B](#) SSNP123 - Plate notched in elastoplasticity (test of the elements  
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[V6.03.126-B](#) SSNP126 - Validation of the law of behavior JOINT\_BA (connection  
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[V6.03.131-A](#) SSNP131 - Identification of the energy criterion  $G_p$  in 2D  
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[V6.03.303-A](#) SSNP303 - Element in plane constraint and traction. Perfect plasticity  
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[V6.03.305-A](#) SSNP305 - Element of bar in compression. Appearance of a pivot  
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[V6.03.311-A](#) SSNP311 - Biblio\_131. Cracking in mode II of a test-tube  
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[V6.03.312-A](#) SSNP312 - DMT94.132 Fissures parallel with the interface in one  
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[V6.03.501-A](#) SSNP501 - Crushing of a polyurethane ring between two  
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[V6.03.502-B](#) SSNP502 - Crushing of a polyurethane ring between two  
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[V6.04.101-B](#) SSNV101 - Test of traction-shearing with the model of Chaboche  
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[V6.04.115-B](#) SSNV115 - Iron corrugated in nonlinear behavior

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[V6.04.118-A](#) SSNV118 - Test of traction-shearing (viscoplastic CHABOCHE) [12/06/96]

[V6.04.121-A](#) SSNV121 - Rotation and traction 3D great deformations (linear law)

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[V6.04.122-A](#) SSNV122 - Rotation and traction 3D great deformations with force

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[V6.04.123-A](#) SSNV123 - Solid mass resting on an elastic mattress

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[V6.04.124-A](#) SSNV124 - Analyze regularized limit. Law of Norton-Hoff

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[V6.04.125-A](#) SSNV125 - Tensile test shearing with the polycrystalline model

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[V6.04.127-C](#) SSNV127 - Roll in a boring with contact and friction

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[V6.04.128-D](#) SSNV128 - Plate with contact and friction on a rigid level

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[V6.04.129-A](#) SSNV129 - Contact of 2 simple bearing plates of which is subjected

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[V6.04.133-A](#) SSNV133 - Uniaxial traction and compression. Mixed work hardening

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[V6.04.135-A](#) SSNV135 - Triaxial compression test drained with model CJS (level 1)

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[V6.04.136-A](#) SSNV136 - Triaxial compression test drained with model CJS (level 2)

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[V6.04.138-C](#) SSNV138 - Plate Cantilever in great rotations subjected to one

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[V6.04.144-A](#) SSNV144 - Bend in inflection in great displacements

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[V6.04.145-A](#) SSNV145 - Plate cantilever in great rotations subjected to one

[19/10/01]

following pressure

[V6.04.146-A](#) SSNV146 - Analyze regularized limit. Spherotoric bottom tank

[06/11/01]

[V6.04.148-A](#) SSNV148 - Models of Weibull and Rice-Tracey in 3D and discharge

[19/08/02]

[V6.04.149-B](#) SSNV149 - Test of ENDO\_ISOT\_BETON

[28/10/03]

[V6.04.150-A](#) SSNV150 - Triaxial traction with the law of behavior

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BETON\_DOUBLE\_DP

[V6.04.151-B](#) SSNV151 - Traction/Compression with the law of behavior

[13/10/04]

BETON\_DOUBLE\_DP

[V6.04.152-A](#) SSNV152 - Elastic traction. Calculation of the constraints of Cauchy

[19/08/02]

[V6.04.153-A](#) SSNV153 - Contact pulley-cord

[19/08/02]

[V6.04.154-A](#) SSNV154 - Triaxial compression test drained with model CJS (level 3)

[04/03/02]

[V6.04.155-A](#) SSNV155 - Triaxial compression test drained on a turned sample of an angle of -

[04/03/02]

PI/6 compared to axis X with model CJS (level 2)

[V6.04.156-A](#) SSNV156 - Column under voluminal loading. Elastoplastic law with

[14/10/02]

gradient

[V6.04.157-A](#) SSNV157 - Tests of the method of delocalization per regularization of

[23/09/03]

the transformation on a variable bar of section into traction

[V6.04.158-A](#) SSNV158 - Triaxial compression test drained with the model of Laigle

[05/10/04]

[V6.04.160-B](#) SSNV160 - Hydrostatic test with law CAM\_CLAY

[02/06/03]

[V6.04.162-B](#) SSNV162 - Calculation of intrinsic creep of dessication with the model

[12/12/02]

of Bazant

[V6.04.163-A](#) SSNV163 - Clean calculation of creep with model UMLV

[01/10/03]

[V6.04.164-A](#) SSNV164 - Setting in tension of cables of prestressed in a beam

[02/06/03]

3D

[V6.04.165-A](#) SSNV165 - Triaxial compression test not drained with law CAM\_CLAY

[03/06/03]

[V6.04.166-A](#) SSNV166 - Roll fissured under multiple loadings

[15/02/06]

[V6.04.171-B](#) SSNV171 - Comparison POLY\_CFC and MONOCRYSTAL

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[V6.04.172-A](#) SSNV172 - Single-crystal viscoplastic behaviors

[02/11/05]

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[V6.04.173-B](#) SSNV173 - Bar fissured with X-FEM

[25/11/05]

[V6.04.176-A](#) SSNV176 - Identification of law ENDO\_ORTH\_BETON

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[V6.04.179-A](#) SSNV179 - Cubic under creep via law LEMA\_SEUIL

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[V6.04.180-A](#) SSNV180 - Taking into account of thermal dilation and the creep of

[03/01/05]

desiccation in model BETON\_UMLV\_FP

[V6.04.181-A](#) SSNV181 - Checking of the good taking into account of shearing

[03/01/05]

in model BETON\_UMLV\_FP

[V6.04.182-B](#) SSNV182 - Block with interface in contact rubbing with X-FEM

[25/11/05]

[V6.04.183-A](#) SSNV183 - Creep test with model VENDOCHAB

[01/09/05]

[V6.04.184-A](#) SSNV184 - Triaxial compression test with the model of Hoek-Brown modified

[15/02/06]

[V6.04.185-A](#) SSNV185 - Fissure emerging in a plate 3D of finished width

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with X-FEM

[V6.04.186-A](#) SSNV186 - LBB condition and contact rubbing with X-FEM

[04/05/06]

[V6.04.200-A](#) SSNV200 - Tensile test shearing with the model

[06/09/02]

## VISC\_TAHERI

[V6.04.301-A](#) SSNV301 - Cylindrical ring in rotation subjected to a thermal shock [01/12/98]

and with an internal pressure - Von Mises (isotropic work hardening)

[V6.04.501-A](#) SSNV501 - Stamping of a sheet by a hemispherical punch (test [15/02/06]

of Wagonner)

[V6.04.503-A](#) SSNV503 - Plan slipping on a rigid level

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[V6.04.504-B](#) SSNV504 - Extrusion of a piece

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[V6.04.505-B](#) SSNV505 - Contact of 2 beams in great displacements

[04/05/06]

[V6.04.506-B](#) SSNV506 - Elastoplastic indentation of a block by a indenter

[15/02/06]

spherical rubber band

[V6.05.100-A](#) SSNS100 - Nonlinear behavior of a tablecloth of reinforcements under

[05/02/02]

thermal loading

[V6.05.101-A](#) SSNS101 - Breakdown of a cylindrical panel under specific force

[03/11/03]

[V6.05.102-A](#) SSNS102 - Buckling of a cylindrical hull with stiffener

[18/12/03]

[V6.05.501-A](#) SSNS501 - Great displacements of a cylindrical panel simply

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supported

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V7: Thermomechanical

[V7.01.100-C](#) HPLA100 - Heavy thermoelastic hollow roll in uniform rotation

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[V7.01.101-A](#) HPLA101 - Thermoelastic hollow roll. Derived compared to one [19/10/01]

variation of field

[V7.01.310-A](#) HPLA310 - Biblio\_49. External radial crack in a bar

[22/11/02]

circular subjected to a thermal shock

[V7.01.311-A](#) HPLA311 - Murakami 11.39. Fissure circular in the center of a sphere

[05/11/02]

subjected to a uniform temperature on the lips

[V7.02.100-B](#) HPLP100 - Calculation of the rate of refund of the energy of a plate

[20/08/02]

fissured in thermoelasticity

[V7.02.101-B](#) HPLP101 - Plate fissured in thermoelasticity (forced plane)

[11/05/04]

[V7.02.300-A](#) HPLP300 - Plate with Young modulus function of the temperature

[13/10/04]

[V7.02.310-A](#) HPLP310 - Biblio\_35. Radial crack interns in a thick cylinder

[22/11/02]

under pressure and thermal loading

[V7.02.311-A](#) HPLP311 - Murakami 11.17 Fissures in the center of a thin section

[19/09/02]

rectangular making obstacle with a uniform heat flow in medium

isotropic

[V7.03.100-C](#) HPLV100 - Parallelepiped modulus Young function of the temperature

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[V7.03.101-A](#) HPLV101 - Homogenisation of a homogeneous material

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[V7.03.102-A](#) HPLV102 - Rate of refund of energy in thermoelasticity for one

[21/05/96]

fissure circular in infinite medium

[V7.03.103-B](#) HPLV103 - Calculation of KI and G thermoelastic 3D for a crack

[15/02/06]

circular

[V7.11.001-A](#) HSLS01 - Thin square plate subjected to a heat gradient in

[20/08/02]

the thickness

[V7.12.303-A](#) HSLA303 - Roll under pressure and thermal dilation

[25/11/05]

[V7.14.100-A](#) EPICU01 - Validation of order POST\_K\_BETA

[07/01/04]

[V7.14.304-A](#) HSLV304 - Roll under thermal loading

[06/11/03]

[V7.15.100-B](#) FORMA01 - Work practise basic training with the use of [16/05/03]

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[V7.15.101-A](#) FORMA08 - Work practise Postprocessing 3D

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[V7.20.100-C](#) HSNA100 - Drying of a concrete enclosing wall

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[V7.20.101-A](#) FORMA09 - TP of the formation thermoplasticity

[11/06/03]

[V7.20.102-A](#) HSNA102 - Validation of the laws of drying on a test-tube

[16/11/04]

cylindrical out of concrete

[V7.21.100-A](#) HSNL100 - Heating of a cable per Joule effect

[03/12/96]

[V7.22.100-C](#) HSNV100 - Thermoplasticity in simple traction

[03/11/03]

[V7.22.101-B](#) HSNV101 - Thermoplasticity and metallurgy uncoupled in traction

[01/12/98]

simple

[V7.22.102-B](#) HSNV102 - Thermo-metal-worker-plasticity coupled in simple traction

[01/12/98]

[V7.22.103-B](#) HSNV103 - Thermoplasticity and metallurgy in plane deformations

[01/12/98]

[V7.22.104-A](#) HSNV104 - Thermoplasticity and metallurgy in plane deformations

[01/12/98]

with restoration of work hardening

[V7.22.105-A](#) HSNV105 - Plate in traction-shearing: élasto-viscoplasticity with [17/12/01]

metallurgy

[V7.22.120-A](#) HSNV120 - Hyperelastic traction of a bar under loading

[21/05/96]

thermics

[V7.22.121-B](#) HSNV121 - Traction in great plastic deformations of a bar

[16/11/01]

under thermal loading

[V7.22.122-A](#) HSNV122 - Thermoplasticity and metallurgy in great deformations

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in simple traction

[V7.22.123-A](#) HSNV123 - Thermo-metal-worker-mechanics EDGAR

[05/09/05]

[V7.22.126-A](#) HSNV126 - Thermo-metal-worker-mechanics in simple traction

[05/09/05]

[V7.22.129-A](#) HSNV129 - Test of compression-dilation for study of the coupling

[14/10/02]

thermics-cracking

[V7.23.120-A](#) HSNA120 - Propagation in a network of fatigue cracks

[02/06/04]

thermomechanics

[V7.30.102-A](#) WTNL102 - Dimensional mono problem of forced convection

[13/10/04]

[V7.31.100-B](#) WTNV100 - Triaxial compression test not drained with model CJS (level 1)

[05/07/05]

[V7.31.101-A](#) WTNV101 - Triaxial compression test not drained with the model of Laigle and with

[13/10/04]

hydraulic coupling

[V7.31.107-A](#) WTNV107 - Saturated porous surface subjected to a thermo shock

[03/12/96]

hydraulics

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[V7.31.122-A](#) WTNV122 - Triaxial compression test not drained with law CAM\_CLAY



[27/09/04]

[V7.31.123-A](#) WTNV123 - Triaxial compression test with suction fixed with the model of Barcelona

[26/10/04]

[V7.31.124-A](#) WTNV124 - Test of désaturation-consolidation with the model of

[27/09/04]

Barcelona

[V7.31.127-B](#) WTNV127 - Désaturation of a porous environment without air (modeling

[04/05/06]

3D\_THV)

[V7.31.128-A](#) WTNV128 - Triaxial compression test not drained with the model of Hoek-Brown

[04/05/06]

modified in effective constraints

[V7.31.129-A](#) WTNV129 - Triaxial compression test not drained with the model of Hoek-Brown

[04/05/06]

modified in total constraints

[V7.32.103-A](#) WTNP103 - Diffusion of air dissolved in water (plan)

[20/10/04]

[V7.32.104-A](#) WTNP104 - Diffusion of air dissolved in water (plan THH2M)

[04/05/06]

[V7.32.106-A](#) WTNP106 - Heating of a porous environment désaturé with dissolved air

[13/10/04]

[V7.32.110-A](#) WTNP110 - Orthotropic flow saturated 2D

[20/10/04]

[V7.32.112-A](#) WTNP112 - Resaturation of a column

[03/01/05]

[V7.32.113-A](#) WTNP113 - Resaturation of an cell

[03/01/05]

[V7.32.115-A](#) WTNP115 - Désaturation of a porous environment without air on unit cell [01/09/05]

[V7.33.102-A](#) WTNA102 - Diffusion of dissolved air (axi)

[14/10/04]

[V7.90.02-A](#)

HSNV100 - Elementary case test in thermoplasticity

[15/03/96]

[V7.90.03-A](#)

HPLA100 - Analytical solution for the thermoelastic hollow roll

[18/03/96]

weighing in uniform rotation

*56 documents*

V8: Acoustic fluid

[V8.01.100-A](#) FDLV100 - Piston coupled to a column of incompressible fluid

[23/05/96]

[V8.01.101-A](#) FDLV101 - Concentric cylinders separated by a fluid

[23/05/96]

incompressible

[V8.01.102-A](#) FDLV102 - Line of 2 cylinders separated by a fluid

[23/05/96]

incompressible: calculation of Eigen frequencies per modal synthesis

[V8.01.103-A](#) FDLV103 - Two concentric spheres separated by a fluid

[23/05/96]

incompressible

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Documentation of Code\_Aster

[V8.01.104-A](#) FDLV104 - Mass added calculated on a generalized model

[23/05/96]

[V8.01.105-B](#) FDLV105 - Mass added on axisymmetric piston coupled to one

[16/07/03]

incompressible column of fluid

[V8.01.106-A](#) FDLV106 - Calculation of damping added in annular flow

[23/05/96]

[V8.01.107-A](#) FDLV107 - Rigidities added under annular flow

[01/03/04]

[V8.01.108-A](#) FDLV108 - Calculation of damping added in annular flow

[01/03/04]

(variable density)

[V8.01.109-A](#) FDLV109 - Calculation of coefficients added in plane flow

[01/03/04]

[V8.01.110-A](#) FDLV110 - Calculation of mass added on modes obtained by under

[01/03/04]

structuring

[V8.01.111-A](#) FDLV111 - Absorption of a wave of pressure in a fluid column

[09/10/01]

[V8.01.112-A](#) FDLV112 - Calculation of stopping with reserve under seismic request

[23/06/03]

[V8.03.100-A](#) FDNV100 - Shaking of a water tank with deformable wall

[04/10/04]

rubber band

[V8.21.100-B](#) ADLV100 - Piston coupled to a column of fluid

[03/12/96]

[V8.21.101-A](#) ADLV101 - Modes of shaking of a tank filled with water

[03/12/96]

[V8.21.102-A](#) ADLS102 - Meridian oscillator fluidelastic

[06/08/03]

[V8.21.200-A](#) FDLL200 - Piping embedded and free by beam fluid-structure

[08/07/03]

[V8.22.100-B](#) AHLV100 - Guide wave at anechoic exit

[03/12/96]

[V8.22.101-A](#) AHLV101 - Guide wave at anechoic exit

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*20 documents*

V9: Any other business (Tiredness...)

[V9.01.100-A](#) SZLZ100 - Tire on an eccentric cycle

[04/06/96]

[V9.01.101-A](#) SZLZ101 - Calculation of the damage. Method RAINFLOW

[04/06/96]

[V9.01.102-A](#) SZLZ102 - Tire with various methods counting

[04/06/96]

[V9.01.103-A](#) SZLZ103 - Tire counting by method RAINFLOW normalizes AFNOR [04/06/96]

[V9.01.105-C](#) SZLZ105 - Counting of cycles by RAINFLOW and calculation of the damage

[28/10/99]

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Documentation of Code\_Aster

[V9.01.106-A](#) SZLZ106 - Tire into frequential

[04/06/96]

[V9.01.107-A](#) SZLZ107 - Criteria of tiredness of CROSSLAND and DANG VAN-

[03/12/96]

PAPADOPOULOS

[V9.01.108-A](#) SZLZ108 - Damage by the methods of TAHERI

[03/12/96]

(“TAHERI\_MANSON” and “TAHERI\_MIXTE”)

[V9.01.109-A](#) SZLZ109 - Damage of Lemaitre in postprocessing

[03/12/96]

[V9.01.110-A](#) SZLZ110 - Damage of Lemaître generalized in postprocessing

[02/06/04]

CALC\_ELEM

[V9.01.111-A](#) SZLZ111 - Damage of Lemaître-Sermage in postprocessing

[02/06/04]

POST\_FATIGUE

*11 documents*

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