

2[PROGRAMMNYJ] COMPLEX FOR THE AUTOMATION  
2[MODELIROVANIJa] OF THE NONSTATIONARY PROCESSES  
2[V] MECHANICAL SYSTEMS AND SYSTEMS OTHER  
2[FIZICHESKOJ] OF NATURE

2PRADIS version 2.2

2[Vkljuchenie] of the programs of the user  
2[v] of the library of the complex

2[Rukovodstvo] of the user

1. INTRODUCTION to .....	I -1
2. GENERAL CONSIDERATIONS OF .....	II -1
2.1. Structure of the library program of .....	II -1
2.2. Information part of the library the module of .....	II -1
2.3. Connection of library program by the computational nucleus of .....	II -2
2.3.1. Unnamed overall region .....	II- E
2.3.2. COMMON - region NOTAT .....	II- "
2.4. Procedure of the start of the program user into the libraries of the complex of .....	II -8
e. START OF THE MODELS OF ELEMENTS IN THE LIBRARIES COMPLEX OF .....	III -1
3.1. Brief description of the computational algorithm. Functions of the model of element in the composition of complex .....	THE III -1
3.2. Structure of the operator SUBROUTINE of the model element .....	III- E
3.3. Passport of the model of element .....	III- '
3.4. Reference information on the model the element of .....	III -10
3.5. Special features of the computational nucleus, to which it is necessary to focus attention with the development of the model the element of .....	III -10
3.5.1. Checking the parameters to the permissibility, the initial initializations of the worker vector and the state vector of .....	III -10
3.5.2. Special features of the models of elements, which assign the initial conditions of .....	III -12
3.5.3. Calculation of the possibility of the use different diagrams of integration and the guarantee of a repeated insertion in the model of the element of .....	III -14
3.5.4. Some other important special features the models of the elements of .....	III -15
3.6. Example of the development of the model of the element of .....	III -15
3.6.1. Formulation of the problem of .....	III -15
3.6.2. Basic dependences for the model element and its parameters of .....	III -16
3.6.3. Jacobian of the element of .....	III -17

	3.6.4. Special situations of .....	III -18
	3.6.5. Selection of the name of the model of the spring of .....	
III -19		
	3.6.6. Passport of the model of the element of .....	III -20
	3.6.7. Text of the model of the element of .....	III -21
	3.6.8. Autonomous testing of the model	
	the element of .....	III -25
	3.6.9. Text of the model of technical system on	
	language PRADIS with the use	
	the element LINKD of .....	III -29
	3.6. One additional example to the model of the element of .....	III
-31		
4. START OF THE PROGRAMS OF THE CALCULATION OF THE OUTPUT		
	VARIABLES INTO THE LIBRARIES OF COMPLEX .....	IV-1
4.1. Functions of the programs of the calculation of the output		
variables and the structure of the operator		
SUBROUTINE OF .....		IV-1
4.2. Passport of the program of the calculation of the output		
variables .....		IV- SHCH
4.3. Reference information on [PRVP] .....		IV- "
4.4. Examples of the programs of the calculation of the output		
the variables of complex PRADIS .....		IV- "
4.4.1. PROGRAM of the X. the calculation of displacement,		
force and the element of working vector .....		IV- "
4.4.2. PROGRAM MAXI. Calculation		
maximum value from N		
internal variable .....		IV-8
shch. START OF THE PROGRAMS OF THE REALIZATION OF THE GRAPHIC		
MEANS INTO THE LIBRARIES OF THE COMPLEX of .....		V -1
5.1. Functions of the programs of the realization of the graphic		
means and the structure of the operator SUBROUTINE of .....		V -1
5.2. Passport of the program of the realization of the graphic		
means and the rule of the formation of names [PGO],		
the connected with the models elements on silence:.. of the V -4		
5.3. Basic principles, placed as the basis		
the development of the programs of the realization of the graphic		
means .....		V- '
5.4. Reference information on [PGO] .....		V- "
5.5. Examples of the programs of the realization of the graphic		
means .....		V- "
APPENDIX 1. Description of the lower graphic		
the level of complex .....		P 1-1
APPENDIX 2. List of the reserved names .....		P 2-1

