

(up to 1991 Yunusov Mahmadyusuf Kamarovich)

Surname: Yunusi

Middle Name: Kamarzoda

Name: Mahmadyusuf

Nationality: Tajik

Country of Work: Tajikistan

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Date of birth: 1949, January 1, Age: 55

Sex: Male

Address: Tajik State National University, Informatics Department,

Rudaki str., 17, Dushanbe, 734025, TAJIKISTAN

**Professional Status:** Candidate of Physics and Mathematics Sci. (Ph.D. degree 1975), Doctor of Physics and Mathematics Sci. (Dr. 1990), Professor (1991)

Head of Infomatics Department

Graduation Date: 1970, Moscow State University

Graduation Area: Mathematical Modeling, Computer Simulation

Languages: English, Russian, Farsi

Computing Technique: Internet, World Wide Web-servers,

Programming by use FORTRAN, Pascal, Basic, ALGOL, HTML, La-TEX, VB, Delphi, C++.

*Membership*: Member of AMS (up to 1998), GAMM, Tajik MS, PWPA *Brief Vitae :* Was born in Komsomolobad region in 1949, January 1

**1965**- Finished the secondary school in Komsomolobad region

**1970** -Graduated from Computational Mathematics Department of Moscow State University

**1971-1975** - Postgraduate students, Candidate of Physics and Mathematics Sci.(Ph.D. degree) defended in **1975**;

**1976-1981** - Head of Mathematical Modeling Depart ., Tajik Acad. of Sci, Dushanbe

**1981-1988** - Docent, Applied Mathematics Depart. Tajik State University **1989-1991** - Post-Doctorial sources, Computer Center, USSR Adac. Of sci., Moscow

1990 - Defended Doctor of Physics and Mathematics Sci. (Doctor's degree).

With **1991 -** Professor, Head of Modeling and Informatics Depart, of Tajik State National University, Dushanbe, Tajikistan.

**PS**: *Titles of candidate dissertations* is "On the numerical solutions one's control problem of heat-mass-transfer processes with complicated boundary conditions". (Computer Center, USSR Adac. of sci., Moscow, 1975).

*Titles of doctor dissertations* is "Mathematical models of the keeping agricultural products and the rare biological populations" (Computer Center, USSR Acad. of Sci. Moscow, 1990).

*Current or Project Research Activities:* Mathematical Modeling and Computer Simulation of Nonlinear Processes in Economics, Sociology, Ecology and Physics;

## Participation in International Conferences:

- 1. Mathematical Modeling. Ostrava, 1989.
- 2. Congress of PWPA, Seoul, 1992, 2000.
- 3. GAMM's Meeting in Regensburg, 1997, Zurich 2001.
- 4. ICM in Berlin, 1998.
- 5. Applied Mathematics, Zanjan (Iran), 2001, IMC Mashhad 2002.
- 6. ICM Beijing 2002 and so on.

**Teaching courses:** 1. Model Economics. 2. Optimizations Methods. 3. Operations research. 4. Mathematical Modeling. 5. Informatics. 6. Models connected with ordinary differential equations. 7. Models connected with differential equations with partial derivatives. 8. Special courses: Optimal control in heat-mass transfer processes. 9. Mathematical models of the keeping problem of the rare biological population. 10. Mathematical models of the struggle with harmful insects of the agrocenos. 11. General model production with corresponding economical systems and some its applications

*Awards:* 1). Comsomol Award of the Government of the Republic of Tajikistan for Young Scientists in the Fields of Science and Technique (1979). 2). Goverment Ordain "SHARAF" (1998). 3). ISESCO 2001 Science Award in Mathematics.

## **Publications**

## of Prof. Dr. Yunusi M. contains more than 180 papers including 2 monographs and 4 textbooks. For example:

1. On the solution of one's optimal problem of Stephen type. J. vichislitelnaj matematika i matematicheskaj fizika. Moscow, 1975, v.15, N 2, p.345-347.

2. Heat interaction of gas pipe-line with ground. Ingenerno-fizicheski journal, Moscow, 1979, v.37, N 3, p.489-496.

3. To construct and give to GOSFOND typical packet applied programs of automated data process of cotton field. The report on the theme of USSR's GKNT, Moscow, VINITI, 1981, N 2.401582. - 82p. (with Ju.Gorelov).

4. Questions of qualitative stability and regularization in dynamics models of cotton agrosenos. Voprosi Kibernetiki, Moscow, 1982, v.43, N 6, p.836-841.

5. Mathematical method of determination of critical values of the ecosystem three trophical levels. J. obshaj biologia, Moscow, 1982, v.43, N 6, p.836-841.

6. Optimal control of some heat-mass transfer processes. Dushanbe, Donnish, 1987. - 132p. (Monograph).

7. Imitating system of agrocenos control. The book : "Imitating systems", Ostrova (Cz.S.R.), 1989, p.152-155.

8. Mathematical models of the keeping of the rare biological populations. Moscow, Computing Center, Acad. Nauk SSSR, 1991, -30p.

9. On the solutions one's class non local problems. Moscow, Computing Center, Acad. Nauk SSSR, 1991, -28p.

10. Mathematical models of the struggle with a harmful insects of agrocenos. Dushanbe, Donnish, 1991, -142p. (Monograph).

11. About some problems connected with patron models of particles interactions with nucleus. Dokl. Acad. Nauk Tajikistan, 1995, v.38, N 1-2, p.15-22.

12. The solution of one's class integral-differential equations and it's application in biology. Dushanbe, TGU, 1989, -51 p.

13. Critical values of models of the keeping rare biological species and plants populations. Dushanbe, TGU, 1991, -50 p.

14. Yunusi M. Mathematical model of workers potential function and its applications . Proceedings of International Baical School Seminar, Irkutsk, 1998, vol. 4), p.195-200.

15. Yunusi M. The best model productions and corresponding economical systems. Vestnik TGNU Vol. 2, N1, 1999, p. 88-94.

16. Yunusi M. Tajikistan by 2000 and some Integration Questions: Designing and Modeling of Global Economy. The book: "Globalization of the Economy". The 8-Th. International Congress of PWPA. Seoul, Korea, February 10-14, 2000, p.136-139.

(See also: Preprint of PWPA, the same title, Seoul, Korea, 2000. -15p.).

17. About some model of changing world and its applications. Dushanbe, TGNU, 2001, - 21p.

18. Model Economics. Dushanbe, TGNU, 2001, -37p.

19. Operation Researches. Dushanbe, TGNU, 2001, -144p.

20. About some model equations. Abstracts of GAMM Conference, Zurich, December 10-14, 2001, p.164.

22. General Model Production with corresponding economical systems and its applications. ICM 2002, Beijing, Chine, 2002, Aug.20-28. p.385.

23. On one class functional and its applications. Abstracts and general guide 33<sup>rd</sup> Iranian Math.Conf. Aug.30-Sept. 2, Mashhad, 2002. p.61

24. Model of perturbed wave in water reservoirs. Vestnik Khorogskogo Universiteta Ser.1, N5, 2002, p.102-107.

25. M. Yunusi. About one's class model equations with extreme properties. Vestnik TGNU, Ser.Matematika, N 1, 2004, p. 128-135. and so on.



## List of publications Prof. Dr. Mahmadyusf K. Yunusi

<u>№</u>	The Name of Work	The Lan- guag e 3.	The Name of Books or Journals 4.	Pages 5.	co-authors 6.
1.			rochure and Books		0.
1.	Optimal control in some Heat –mass transfer processes	Rus- sian	Dushanbe: Donish, 1987	132 p.	
2.	Mathematical Models of the struggle with harmful insects agrosenos		Dushanbe: Donish, 1991	143 p.	
3.	Critical values in the keeping models of the rary animals and agricultural plants		Dushanbe: TGNU, 1991	51 p.	
4.	The solution of one's class inte- gral-differential problems and its applications In biology		Dushanbe: TGNU, 1991	53 p.	
5.	Mathematical Models of the keeping of biological populations		Moscow, Computing Cen- ter of USSR Acad. of Sci., 1991	30 p.	
6.	About one's class of non- local problems		Moscow, Computing Cen- ter of USSR	28 p.	
7.	Mathematical Models of plant's protection and keeping's of ani- mals		Acad. of Sci. , 1991	29 p.	
8.	Mathematical Models of water ecosystems		Dushanbe: TGNU, 1988 Dushanbe:	18 p.	
9.	Optimizations Methods	Tajik	Donish, 1989	90 p.	
10.	Operations Research	Rus- sian	Dushanbe: TGNU, 1987 Dushanbe:	45 p.	

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			TGNU, 1988		
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11.	About solution of one's optimal		J. Vichislitelnay	p.345-357	
	problem of Stefan's type	sian	Matematica i		
			matematicheskaj		
			Fizika 1975,		
			v.15, №2 (Mos-		
			cow)		
12.	The solution of one's optimal		Dokl. AN Tajik	p.11-14	
	problem of product's distribu-		SSR, 1974, т.17,		
	tions of moving in the pipe-line		Nº2		
13.	Non-startionary of Heat interac-		J. of Oil Trans-	p21-26	
	tion oil pipeline with ground		fer and oil prod-		
			ucts, Moscow		
			1975, № 8		
14.	Non-startionary of Heat regime		(Moscow)	-18 p.	
	of product line in the ground		Minsk, 1975, J.		
			of "Ingenerno-		
			fizicheski jour-		
			nal". VINITI		
			1.04.1975,	<b>a</b> (	
			№1761-75	p.3-6	
15.	About the existing of solution of		Dokl. AN Tajik		
	one's integral-differential prob-		SSR, 1976, т.19,		
	lem		Nº7	0.40	
16				p.8-10	
16.	Variation Methods to Solution		Dokl. AN Tajik		
	Stefan's Problem		SSR , 1976,		
			т.19, №8		
1 5				p.77-78	
17.	About optimal control of grows		The Book:		
	processes		Tezisi respubl.		
			Confer.		
			Molodich uchen-		
			ich. Dushanbe,		
10			1977		$D M_{-1}$
18.	About question of definition of			p.69-70	D. Nabotov
	optimal Russell width		In the 1 1		
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19.	About width optimization of Heat			-9 p.	
	pipe-line isolation		Minula 1076		
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20.	About width optimal of gas pipe line's Heat isolation	р.20-23 Dokl. AN Tajik SSR, 1977, т.17, №6
21.	About optimal control problems connected with Grows processes	p.11-18 Izvestia AN Tajik
22.	About some Mathematical	SSR , 1977, № 4
	Problems of cotton	The book: TezisiDokl. Molodichuchennich Taji-
23.	Optimal control in some prob- lems of Mathematical ecology	kistan p.24 The same book
24.	Optimal regulation of Water ground	p.23 p.23
25.	About optimal problems Connected with cottons grows	-24p. Izvestia AN Ta- jik SSR, VINITI 11.04.1977
26.	About optimal control problems connected with Agrocenos models	№1831-77 г. Dokl. AN Tajik SSR 1978, т.21, №4
27.	About some hydrotechnical prob- lems and corresponding differen- tial equations	Izvestia AN Ta- jik SSR 1978, № 3
28.	The Heat interactions of Gas pipe-line with Ground	Minsk, Ingen- erno- Fizichesky Juornal 1979, v.37, № 3
29.	The statement of optimal control problems connected with cotton's grows	The book: The p.140-143 Automatization of Scientific works in Tajiki-

30.	Optimal control of one's ecosys- tem		stan, Donish, 1979 The same place	p.143-149	
31.	Questions of the quality stability and Regularization in dynamical models of cotton agrobiocenos		Voprosi Kiber- netiki Moscow, vol. 52, 1979	p. 60-72	D. Logofet
32.	Optimal Control of the two pole populations		The book: Mate- riali Nauch teo- ret. Confer. Ta- jikistan. TGNU, 1979	p. 69-70	
33.	The construction automatization imitation model of cotton bio- cenos		The book: Mate- riali Vsesouzn. Conference. Po biomedkiber- netike Sangachi,	p. 57-58	
34.	About agrocenos and connected with it optimization problems		Gruzia SSR, 1979 Dokl. AN Tajik SSR, 1979, v.2, № 11	p.353-356	
35.	Mathematical Model of Integra- tion's Methods of struggle with harmful insects		Izvestia AN Ta- jik SSR, 1980, № 4	p.652-656	
36.	About analyzed quality Stability of some ecosystems of "Tigrovay balka"			p. 86-92	G. Asimova
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37.	The construction of automatiza-	Rus	The book: Mate-	p. 30-31	
	tion and imitation model of cot-		riali Vsecouzn. Confer. Po prob-		
	ton agrocenos		lem SU,		
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			Dokl. AN Tajik		
38.	About pure and mixed strategy of		SSR, 1980, v.21,	p.210-	
	integration method of struggle		<u>№</u> 4	214	
	with harmful insects				
			The book: Nu-		
39.	About Mathematical Modeling of		merical Methods	04.05	M. Narziqulov,
	cotton ecosystems		in animals ecol-	p. 94-95	Sh. Umarov
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			1980		
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40.	Mathematical Models of harmful		Tezisi respubl.	p.63	
	insects dynamic		Confer.		
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			ich. Dushanbe,		
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	About Mathematical Modeling of		In the same	p. 64	V. Kniaskov
41.	ecosystems "Tigrovay Balka"		book	p. 04	v. Kindskov
42.	About one's optimal chemical		<b>.</b>	<i></i>	
	problem connected with distribu-		In the same book	p 65	
	tions				
43.	About boundary of using of		Dokl. AN Tajik	p.319-	
15.	chemical method wit agricultural		SSR,	322	
	harmful		1981, т.24, №5	· -	
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44.	Optimal control in biosystem of		Izvestia AN Ta-	p. 81-86	
	"predator – prey"		jik SSR №2,		
1			1981		
45.	"The typical packet of applied		The Report on	-82 p.	
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1	P B- min		USSR GKNT,		M. Gulamov
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46.	About definition critical values		Dokl. VASCH-	p. 22-23	M. Narziqulov
	on the integration method with harmful insects		NIL 1981, № 2		
47.	About solutions one's optimal		(Moscow) Izvestia AN	p.106-108	
	control problem		Tajik SSR, №4, 1982		
			Izvestia AN Ta-		
48.	Mathematical Model harmful insects dynamic with regard to			p.103-105	
	age structure		1702		
49.	Mathematical Method of defini- tion critical values of the three		Journal of gen- eral biology,	n 926 941	
	trophical levels ecosystems		1982, v.43, № 6	p.836-841	
			Moscow		
50.	The definition of local method parameters of insecticide's using		The book: Eco- logical effects of		
			insecticide's using,	p.154-157	
51.	About solutions optimal control		Dushanbe, Don- ish, 1982		
	problems connected with cotton grows		Dushanbe, Don-	-13 p.	
52.	On the problem of environment's		ish, 1982	15 p.	
52.	protection		Dokl. AN Tajik	p.148-151	O. Mirzod-
			SSR, v.26, №2, 1983		jonova, H. Is- matov
53.	Investigation of integral- differ- ential system connected with		The book: Mate-	p.136-137	
	biosystem "predator- prey"		riali Respub. Conference On		
			the physical equations,		
54.	The solution of one's integral- differential problem by		Dushanbe, 1983	p.491-494	
	Fourier method		Docl. AN Tajik SSR, p.27, №9,	-	
55.	Computer and Cotton	Taj	1984	p. 39-42	
55.		ιαj	J. Ufukhoi ILM,	p. 57-42	
56.	About Mathematical modeling of		Dushanbe, 1984, №1		
	the Ftor distributions on the envi- ronment	rus	The book: Mate- riali respub.	p. 75-76	
			Conferen. Part 1. Dushanbe, 1984		
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57.	Economical statement of automa- tization of the integration method of the struggle with agroecosys- tem insects	Rus	The book: Sci- ence- Technical progress and Effective of gen- eral production , Dushanbe, 1984	p.110-112	
58.	Non-stationary solution of one's probability problem		The book: Re- spub. Confer- ence Part.1, Dushanbe, 1985	p. 23	N. Ismatov
59.	The approximate solution of one's integral-differential prob- lems		Dokl. AN Tajik SSR, v.28, № 9, 1985	p.504-506	
60.	About one's probability extreme problem		The book: Ap- plied Questions of Mathematics, 1986	p. 82-84	
62.	Necessary sufficient conditions of harvested collected		The book: Mathematical modeling on the problems of natural re- sources. Rostov na Donu, 1986	p.182-183	
	The method of solution the powders Heating and evaporation problem on the Gas plasma		The book: Ana- lytical Method of calculations of the Heat mass transfers proc- esses.	p. 71-72	
63.	Quality stability analyzed of "Ramit" ecosystems		Dushanbe, 1986 The book: Eco- nomical prob- lems of Science-	p. 22	
64.	Optima control of ecosystems of the tree trophical levels		Technical pro- gress Dushanbe, 1986 Dokl. AN Tajik SSR v.30, №5,	p.277-281	
65	The system of equations of re-		1984 The book: Ab-		

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			Of Vsesouzni	170 171	
			Conference on the differential	p.170-171	
			equations.		
			Dushanbe, part		
			2, 1987	266.260	
66.	The definition of Logistic Sur- face	Rus	Dokl. AN Tajik SSR , № 6, 1988	p.366-369	
67.	About solution of some integral- differential problems		The book: Tezisi dokladov Vse- zouzhi Confer. On the func- tional methods Tashkent, 1988	p. 45-76	
68.	The modeling – effective instru- ment to knowledge		The book: Formed and In- tensification of economics Dushanbe, 1988	p.77	
69.	Mathematical Method of defini- tion students knowledge		The book: Tezisi respub. Confer. On the methodi- cal works Dushanbe, 1988	p. 75	
60.	Dynamics of Isolation popula- tions with regard to age's and spaces distributions		The book: Mathematical modeling on the problem of envi- ronment re- sources, Rostov na Donu, 1988	p.118-119	
71.	Some Mathematical question of animals keeping		Dokl. AN Tajik SSR 1989, v.32, №2	p. 87-89	
72.	Imitation System of agrocenos	Rus rus	The book: Imita- tion System, Chehia , Os- trava, 1989	p.152-154	
73.	About solution one's class inte- gral- differential problem		Dokl. AN Tajik SSR , 1989, v.32, №8	p.510-513	

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74.	The stationary solution of ones integral-differential system. About ones integral-differential problem connected with system "Predator- Prey"		The book: Applied questions of mathemat- ics,Dushanbe, part 2, 1989 Izvestia AN Ta- jik SSR , 1989, v.113, № 3	p. 8-13 c. 68-71	U. Haitova
76.	About solution of some integral- differential problems	Rus	Dokl. AN Tajik SSR, 1990, v.33, №6	p.368-372	
77.	About solution one's class inte- gral equations		The book: Mate- riali respub. Confer. Devoted to Prof. T. Sobi- rov Dushanbe, 1990	p.206-207	
78.	About new statements problems of differential equations		The book: Tezisi respub. Confer. of TGU , Dushanbe 1991	p. 14	
79.	About mathematical problems of the keeping of the rare popula- tions	Rus	The book: Mathematical problems of ecology. Dushanbe , 1991	p. 45-46	
80.	The approximate solution of one's Degenerate problems		The book: Tezisi respub.confer on the differential equations, Ku- lob, 1991	p.193-194	

81.	About correct solvability one's non- local problems About one's probability model of Agrocenos control	rus	Vestnik TGNU, 1991, № 5 In the same place	p. 32-37 p. 52-62	
83.	Mathematical modeling of fishers ecosystem control. Information 1.		Izvestia AN Ta- jik SSR, 1991, №1	p. 14-18	Bogdanov,I, F. Komilov
84.	Information 2. The same name		In the same jour- nal, 1992, №1	p. 33-38	
85.	Information 3. The same name		In the same jour- nal, 1992, №1, VINITI, №582- B93	-11 p.	
86.	About boundary problems with functional initial conditions		The book: Tezisi Confer. devoted	cp. 70-71	
87.	Comparison theorems to integral- differential problems	Rus	to 60 –years academician A. Djuraev The book: Non- linear of differ- ential equations	p. 63	
88.	M - correct statements problems		Kiev, 1993 Vestnik TGNU, 1994, № 1	p. 21-25	
89.	About investigation's partons models of particle interactions with nucleus		The book: Tezisi respub. Con- feren., 1994 (Dushanbe)	p. 32	
90.	The solution of one's problem with functional initial conditions	Rus	In the same place	p.31	
91.	Investigation of Mathematical model of plants protection with regard to ages structure		In the same place	p. 29	
92.	Mathematical models with func- tional conditions and it's investi- gations	Eng- lish	The book: Tezisi of International	p. 374	

93.	Investigation of Mathematical Models with regard to inter and Intraspecific interactions		Confer. on the Mathematical modeling and computer ex- periments, Tash- kent, 1994 In the same place	p. 375	H. Maqsudzod
94.	Investigation of mathematical models with regard to age struc- ture		In the same place	p. 377	R. Odinaev
95.	Mathematical models of defini- tion optimal time moments trans- port of products to trade points	Rus	In the same place	p. 376	S. Sanginov
96.	Mathematical model of sorption mechanism of iron gidroxide		In the same place	p. 378	A. Atoev, B. Homidov
97.	Geoinformation system control of ecological processes		In the same place	p. 379	S. Tursunov S. Aslov
98.	About some problems connected with parton model interaction of particle with nucleus		Докл. Акад. Наук Таджики- стана, 1995, № 3-4.	p.15-22	
99.	The solution of the generalized logistic problem		The book: Prob- lems of com- puters educa- tional processes, October 20-24, 1995	p. 14	
100	On the general economics model with regard to workers age		In the same place	p.19	
101	Boundary problems with regard to initial functional conditions	Eng- lish	The book: Tezisi of International Confer. on the Mathematical modeling and computer ex- periments, Tash- kent, 1994	p. 15-22	

102	Mathematical problems of arti		The beels: At	n 112 115	F. Komilov
102 103	Mathematical problems of opti- mization of fishers ecosystems About ones hyperbolic problem		The book: Ab- stracts of respub. Confer. TISP . "Amri dil", Dushanbe, 1995 The book: Dif-	p.113-113	<b>Γ. ΝΟΠΠΙΟ</b> Υ
	with functional initial condition	Rus	ferential and integral equa- tions and its ap- plications 1995, Vip. 7	p.102-104	R. Rachimov
104	About problems with functional conditions in the non-bounded spaces	Rus	In the same place	p. 112- 113	
105	About degenerate problems with functional initial conditions	Eng- lish	The book: Mate- riali Inter. Con- fer. Differential Equations with singular Coeffi- cients	p.100	
106	On mathematical problems for keeping the rare animals of na- tional parks	Rus	In the same place	p. 101	Sh. Kosimov
107	About ones problem with func- tional condition for hiperbolic equations		In the same place	p. 99	R. Rahimov
108	About solution ones class differ- ential equations with integral constraints		In the same place	p. 65	R. Odinaev
109	Models of economical devel- opment with workers age		The book: Eco- nomical and social problems of Tajikistan "Amri dil", Dushanbe, 1997	c. 16-21	G. Salomova
110	About general economics model with regards to workers age	Eng- lish	Proceedings of International Conferenc. on Mathematical	p.7	

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			periments.		
111	Economics generate a new class	Rus	In the same	p.8	
	differential equations		place		
112	About solutions of Shreddinger	rus	In the same	p.38	
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113	Numerical solution ones problem of economical development	eng-	In the same	p.45	
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114	On the theory of differential		<b>T</b> 1	-	
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115	Mathematical model of workers	Rus	The book: Dif-	- 115 110	
•	potential		ferential and integral equa-	p.115-118	
			tions, Vip. 7,		
116		Dug	Dushanbe.1998	n 10 01	A Ashurov
•	Temperature regime of deforma- tions problems	Rus	In the same place, Vip. 6,	p.18-21	A. Ashurov
	r r r r r		Dushanbe. 1998		
117	The discount of age factors in the	Eng-	The book: Na-	p.202-203	
	model of economical grows	lish	tional Economics.	p.202 203	
			Dushanbe. 1998. The book: Materi-		
118	About ones model of workers		ali Inter. School-		
	potential function and its	Eng-	seminar on the optimization		
	applications	lish	methods and its	p.195-200	
			applications, Part 4, Irkutsk 1998.		
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