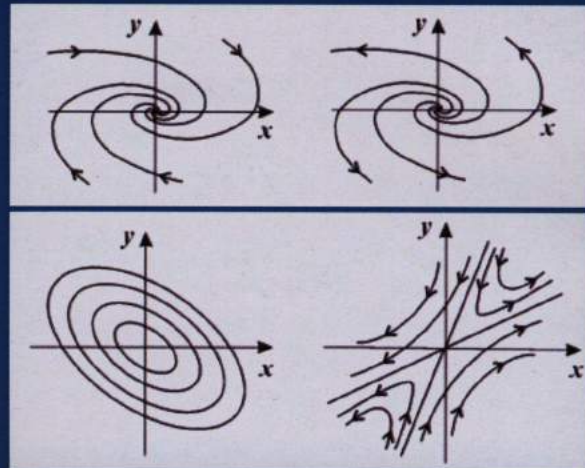


Ioannis P. Stavroulakis
Zhanat Kh. Zhunussova

OSCILLATORY BEHAVIOR OF FIRST ORDER FUNCTIONAL DIFFERENTIAL EQUATIONS



AL-FARABI KAZAKH NATIONAL UNIVERSITY

OSCILLATORY BEHAVIOR
OF FIRST ORDER FUNCTIONAL
DIFFERENTIAL EQUATIONS

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Almaty
"Qazaq University"
2019

UDC 51(075.8)
LBC 22.1я73
S 81

*Recommended for publication by the decision
of the Academic Council of the Faculty of Mechanics and Mathematics,
Editorial and Publishing Council
of Al-Farabi Kazakh National University
(Protocol №5 dated 27.06.2019)*

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Stavroulakis I.P., Zhunussova Zh.Kh.

S 81 Oscillatory behavior of first order functional differential
equations / I.P. Stavroulakis, Zh.Kh. Zhunussova. – Almaty:
Qazaq University, 2019. – 192 p.

ISBN 978-601-04-4238-2

Some theoretical foundations of oscillations of delay equations are expounded in the textbook: oscillations of delay equations, oscillations of difference equations.

The tasks for independent work with solving of concrete examples, brief theory and solution algorithms of the problems, term tasks on sections of oscillations of delay and difference equations are presented. It is intended as a textbook for students of the high schools training on specialties "mathematics", "mechanics", "automation and control", "mathematical and computer modeling" and "informatics". It will be useful for the post-graduate students and scientific workers of the mathematical, economic and naturally-technical specialties.

UDC 51(075.8)
LBC 22.1я73

ISBN 978-601-04-4238-2

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ISBN 978-601-04-4238-2



9 786010 442382
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