

Документ подписан простой электронной подписью
Информация о владельце:
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Discipline annotation

Сети и системы передачи информации / Information transmission networks and systems

Summary	Fundamentals of the theory of transmission and coding of messages. Introduction to signal theory. Methods of analog-to-digital and digital-to-analog conversion of signals. Principles of digital transmission of information. Interference in information transmission channels. Regeneration of discrete digital signals. Coding in information transmission systems. Adaptation methods in information transmission systems. Fundamentals of building systems and networks for information transmission. Wired and cable systems of information transmission. Principles of construction of wireless systems of information transmission. Principles of wireless communication. Principles of construction of computer networks. Reference model of open systems interaction. Principles of switching, multiplexing and routing in information transmission networks.
Learning outcomes of the discipline	- evaluates all modes of operation of networks and information transmission systems using hardware and software
Workload, c. u.	4c. u.
Reporting Forms	Exam - 5th semester
List of essential and supplementary literature necessary for mastering the discipline	
Essential literature	1. Akulinichev Yu. P. Radio engineering systems of information transmission / Electronic source: textbook / A. S. Bernhardt / Yu. P. Akulinichev. - Tomsk: Tomsk State University of Control Systems and Radioelectronics, 2015. - 195 p. - The book is in the basic version of IPRbooks ELS, Unlimited copies 2. Akulinichev, Yu. P. Theory and technology of information transmission: textbook / Yu. P. Akulinichev, A. S. Bernhardt. - Tomsk: Tomsk State University of Control Systems and Radioelectronics, 2012. - 209 p.: illustrations, tables, diagrams. - http://biblioclub.ru/. - ISBN 978-5-4332-0035-7, unlimited copies
Supplementary literature	1. Information technologies: textbook / Yu. Yu. Gromov, I. V. Didrich, O. G. Ivanova, and others; Ministry of Education and Science of the Russian Federation; Federal State Budgetary Educational Institution of Higher Professional Education "Tambov State Technical University". - Tambov: Publishing house of TSTU, 2015. - 260 p.: illustrations, tables, schemes. - http://biblioclub.ru/. - Bibliography in the book. - ISBN 978-5-8265-1428-3, unlimited copies 2. Dushin, V. K. Theoretical foundations of information processes and systems: textbook / V. K. Dushin. - 5th ed. - Moscow: Publishing and Trade Corporation "Dashkov and

	Co", 2016. - 348 p.: ill. - http://biblioclub.ru/ . – Bibliography in the book. - ISBN 978-5-394-01748-3, unlimited copies
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