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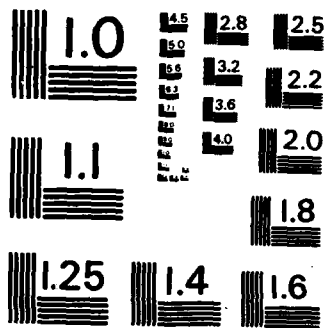
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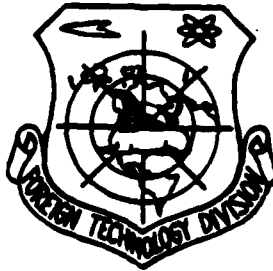
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S.M. KIROV TOMSK POLYTECHNIC INSTITUTE

by

K.A. Khorkov



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EDITED TRANSLATION

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U. S. BOARD ON GEOGRAPHIC NAMES TRANSLITERATION SYSTEM

Block	Italic	Transliteration	Block	Italic	Transliteration
А а	<i>А а</i>	A, a	Р р	<i>Р р</i>	R, r
Б б	<i>Б б</i>	B, b	С с	<i>С с</i>	S, s
В в	<i>В в</i>	V, v	Т т	<i>Т т</i>	T, t
Г г	<i>Г г</i>	G, g	У у	<i>У у</i>	U, u
Д д	<i>Д д</i>	D, d	Ф ф	<i>Ф ф</i>	F, f
Е е	<i>Е е</i>	Ye, ye; E, e*	Х х	<i>Х х</i>	Kh, kh
Ж ж	<i>Ж ж</i>	Zh, zh	Ц ц	<i>Ц ц</i>	Ts, ts
З з	<i>З з</i>	Z, z	Ч ч	<i>Ч ч</i>	Ch, ch
И и	<i>И и</i>	I, i	Ш ш	<i>Ш ш</i>	Sh, sh
Й й	<i>Й й</i>	Y, y	Щ щ	<i>Щ щ</i>	Shch, shch
К к	<i>К к</i>	K, k	Ъ ъ	<i>Ъ ъ</i>	"
Л л	<i>Л л</i>	L, l	Ы ы	<i>Ы ы</i>	Y, y
М м	<i>М м</i>	M, m	Ь ь	<i>Ь ь</i>	'
Н н	<i>Н н</i>	N, n	Э э	<i>Э э</i>	E, e
О о	<i>О о</i>	O, o	Ю ю	<i>Ю ю</i>	Yu, yu
П п	<i>П п</i>	P, p	Я я	<i>Я я</i>	Ya, ya

*ye initially, after vowels, and after ъ, ь; e elsewhere.
When written as ě in Russian, transliterate as yě or ě.

RUSSIAN AND ENGLISH TRIGONOMETRIC FUNCTIONS

Russian	English	Russian	English	Russian	English
sin	sin	sh	sinh	arc sh	sinh ⁻¹
cos	cos	ch	cosh	arc ch	cosh ⁻¹
tg	tan	th	tanh	arc th	tanh ⁻¹
ctg	cot	cth	coth	arc cth	coth ⁻¹
sec	sec	sch	sech	arc sch	sech ⁻¹
cosec	csc	csch	csch	arc csch	csch ⁻¹

Russian English

rot curl
lg log

GRAPHICS DISCLAIMER

All figures, graphics, tables, equations, etc. merged into this translation were extracted from the best quality copy available.

S. M. KIROV TOMSK POLYTECHNIC INSTITUTE

On 21 April 1965, K. A. Khor'kov defended his dissertation on the topic "Questions of Design of a Pulse Power Oscillator". Official opponents: Doctor of Technical Sciences, Professor I. D. Kut'yavin and Candidate of Technical Sciences G. A. Sipaylov.

A procedure for computing the parameters of a pulse power oscillator with allowance for the characteristics of its operation is developed and experimentally confirmed, and recommendations are given for selection of optimum values of parameters for which the power of the impulse excited oscillator is maximum at given dimensions.

A procedure for computing harmonic oscillations, including tooth ripples, at critical efficiency and the current of the impulse excited oscillator is developed and experimentally confirmed. Recommendations are given for selecting parameters of the tooth zones of the stator and rotor and the size of the air gap of the oscillator; recommendations are given for selecting the stator and rotor windings, and methods of controlling tooth ripples are elaborated.

Cont'd

10. 4. 5
A procedure for computing power, energy and machine constant of the impulse excited generator is developed by means of which it is possible to select optimum relationships between the main dimensions of the unit and compute the volume of the active part of the impulse excited oscillator.

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