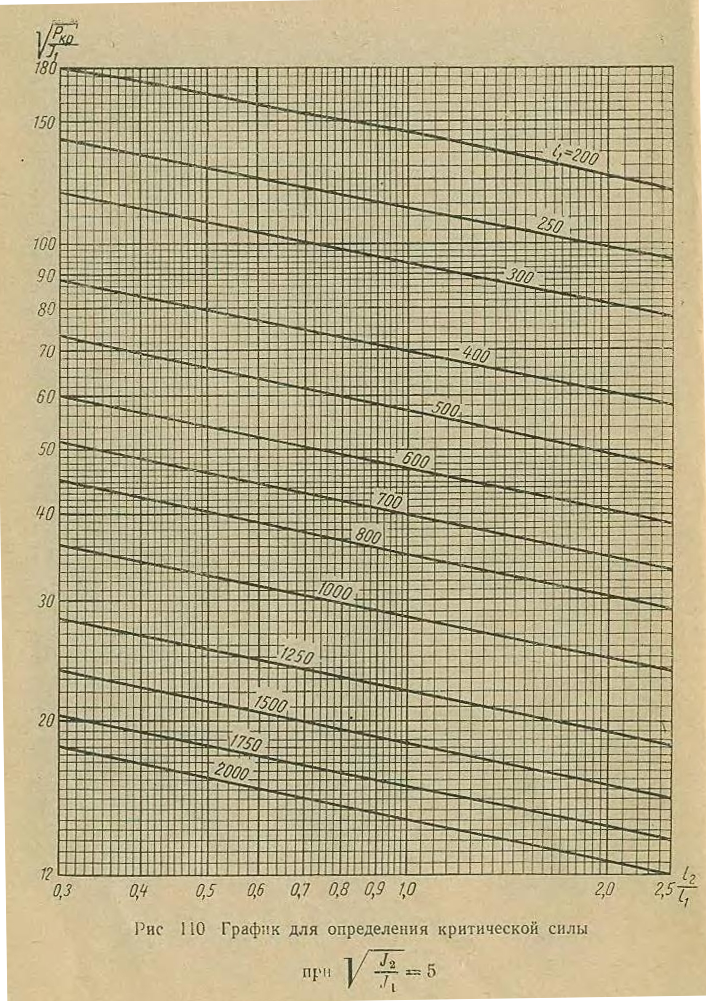
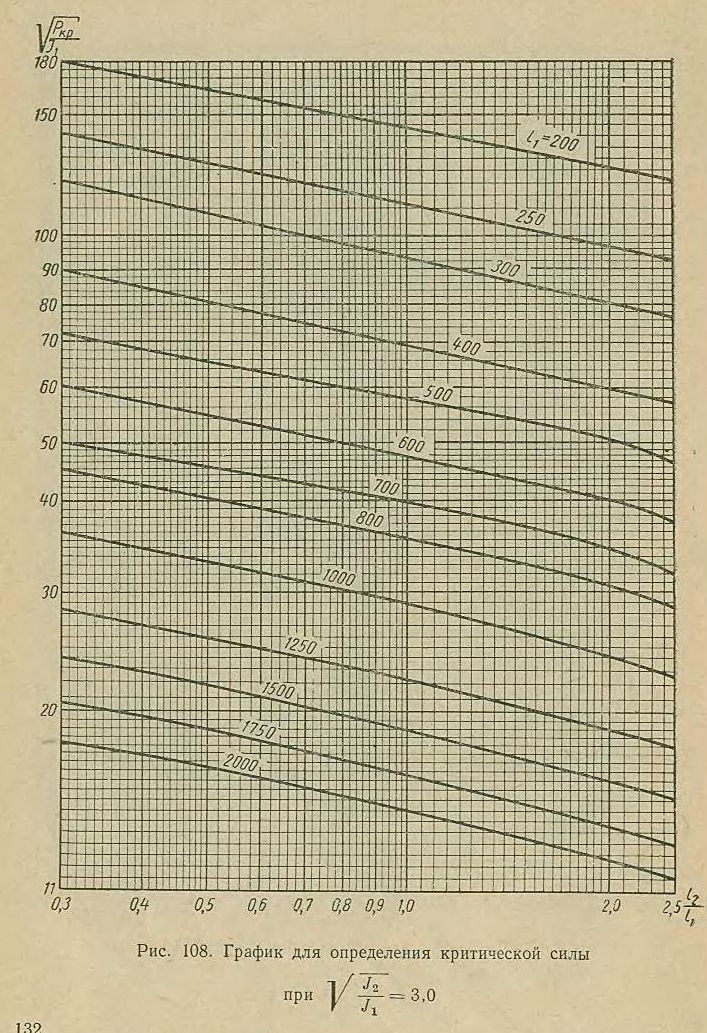
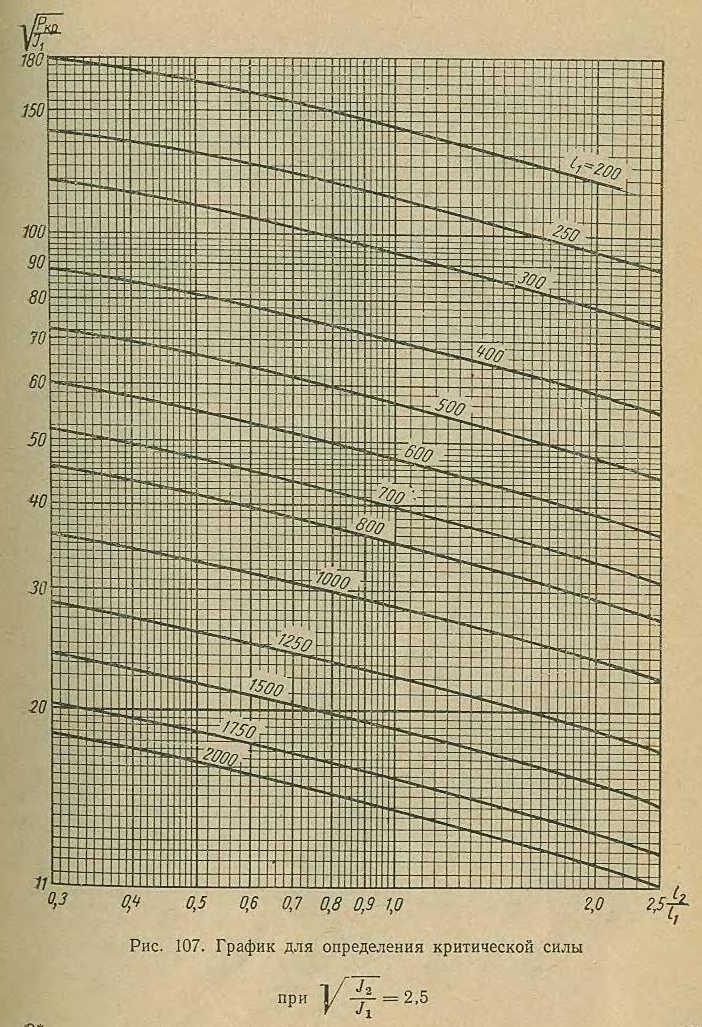
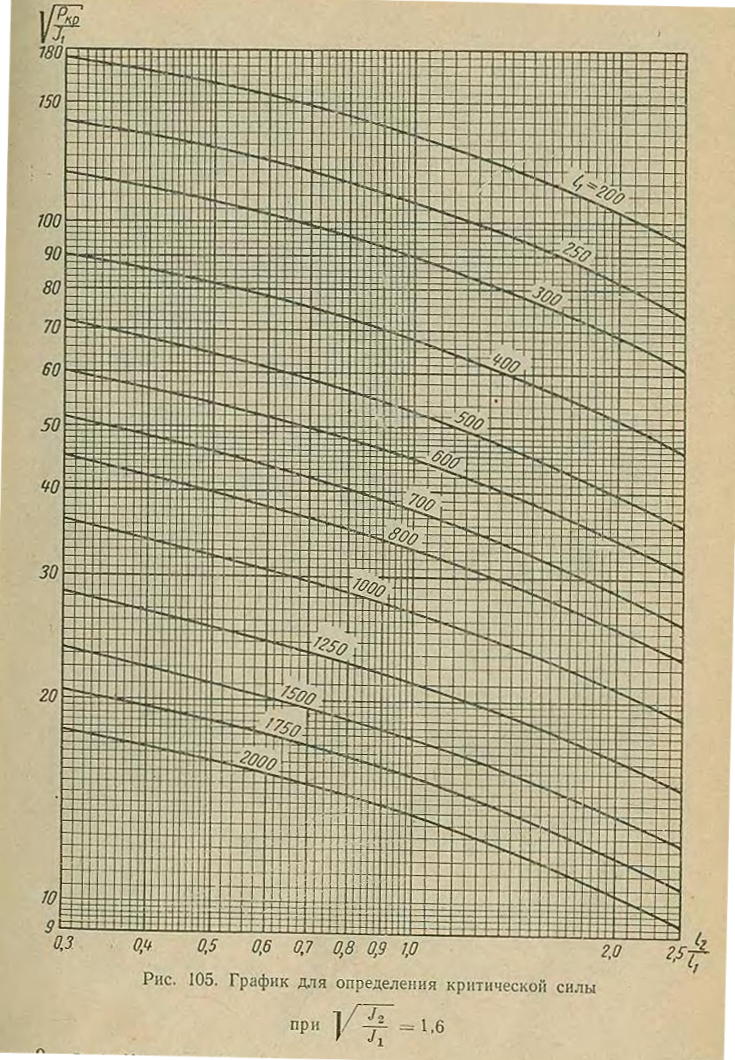
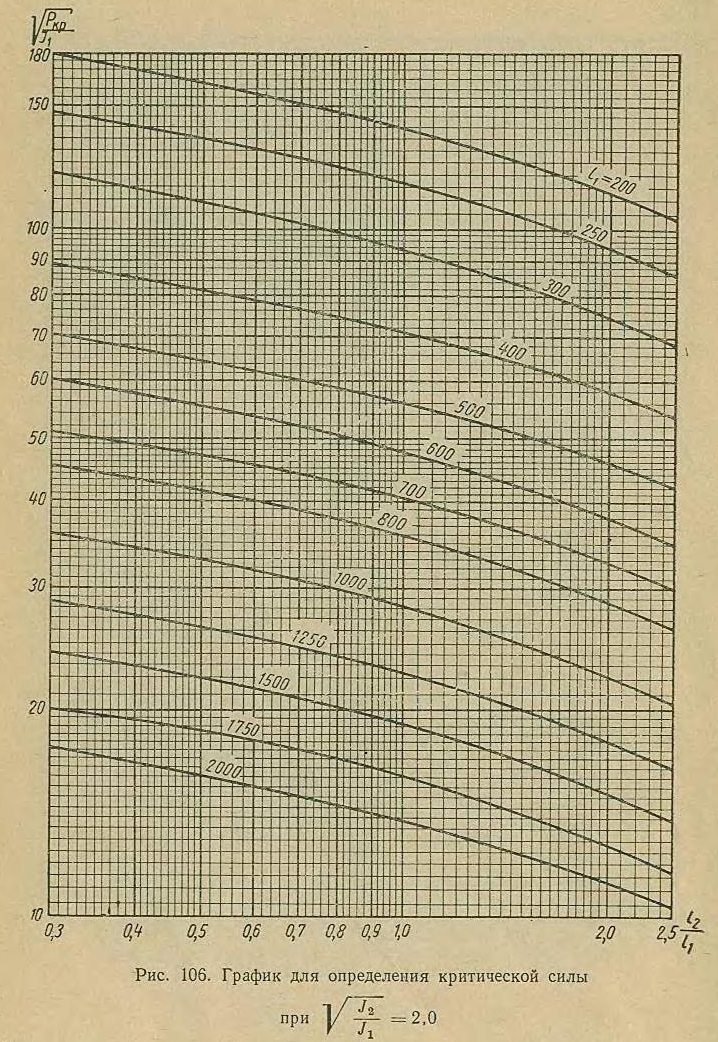
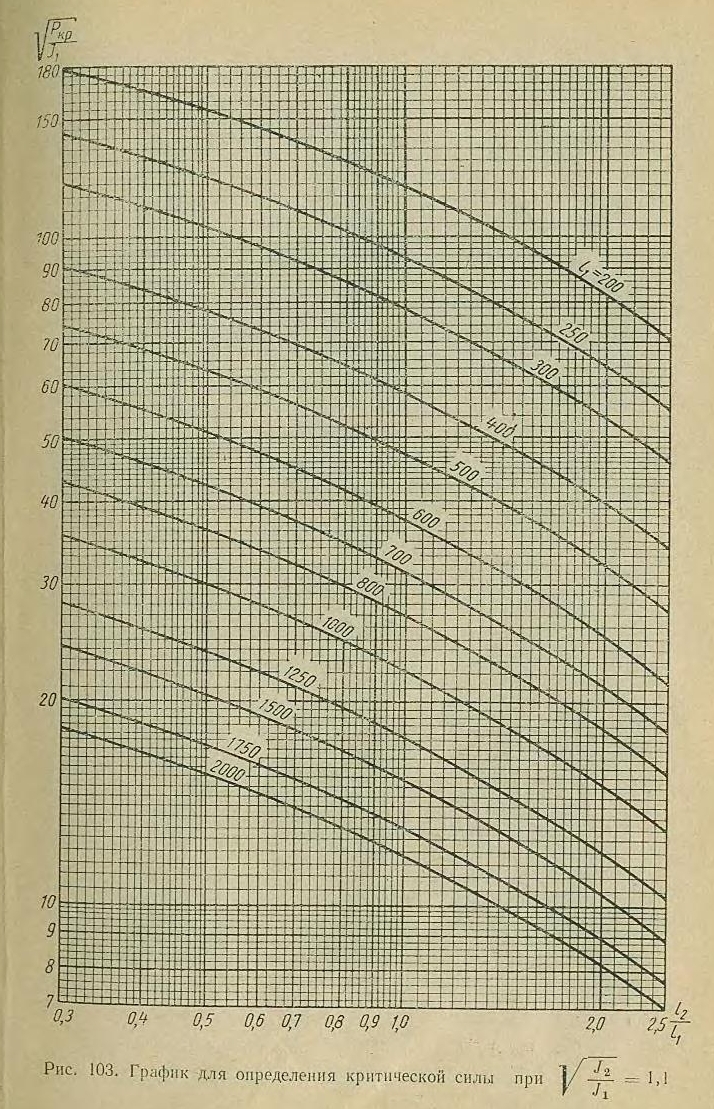
Исходные графики



Полученные данные для l1 = 600 и Ω = 1.1 в формате CSV

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Исходный код программы для обработки результатов на языке GO

package main

import (

"os"

"encoding/json"

"math"

//"fmt"

"strconv"

"fmt"

)

type jsonT struct {

Data data `json:"data"`

}

type data struct {

W float64 `json:"W"`

Data []graph `json:"data"`

}

type exp struct {

base float64

pow float64

}

type graph struct {

L int `json:"l"`

first exp

second exp

Data [][2]float64 `json:"data"`

}

func main() {

fmt.Println()

//fmt.Printf("%s\n",strconv.FormatFloat(float64(0), 'f', 0, 64))

println(" 200",

" 250",

" 300",

" 400",

" 500",

" 600",

" 700",

" 800",

" 1000",

" 1250",

" 1500",

" 1750",

" 2000")

arr := []string{"1.1","1.6","2","2.5","5"}

arrT := []data{}

for \_, W := range arr{

data := jsonT{}

file,\_ := os.Open(W + ".json")

defer file.Close()

reader := json.NewDecoder(file)

reader.Decode(&data)

arrT = append(arrT, data.Data)

}

file,\_ := os.OpenFile("here.json", os.O\_RDWR, 0777)

defer file.Close()

reader := json.NewEncoder(file)

reader.Encode(&arrT)

second := make(map[int][][2]float64)

for \_, o := range arrT{

str := "" + strconv.FormatFloat(o.W, 'f', 3, 64) + " "

for \_, obj := range o.Data{

a, b := Appr(obj.Data)

obj.first.base = a

obj.first.pow = b

/\* fmt.Printf("w=%s, l=%s, %s\*x^%s\n",

strconv.FormatFloat(float64(o.W), 'f', 3, 64),

strconv.FormatFloat(float64(obj.L), 'f', 3, 64),

strconv.FormatFloat(a, 'f', 3, 64),

strconv.FormatFloat(b, 'f', 3, 64),

)\*/

// TODO меняем знак у степени!!!!!!!!!!!!!!!!!

str += strconv.FormatFloat(-1 \* obj.first.pow, 'f', 3, 64) + " "

second[obj.L] = append(second[obj.L], [2]float64{o.W ,-1 \* obj.first.pow})

//str += strconv.FormatFloat(obj.base, 'f', 3, 64) + " "

}

println(str)

}

sec := make(map[int]exp)

for i, p := range second{

a, b := Appr(p)

sec[i] = exp{a, b}

}

fmt.Printf("%v\n", sec)

for \_, p := range sec{

println(strconv.FormatFloat(p.base, 'f', 3, 64) + " " + strconv.FormatFloat(p.pow, 'f', 3, 64))

}

}

/\*\*

a is coefficient of x

b is power of x

\*/

func Appr(arr [][2]float64) (a, b float64){

var S1, S2, S3, S4 float64

for \_, r := range arr{

r[0] = math.Pow(float64(10), r[0])

s1 := math.Log10(r[0])

S1 += s1

S2 += s1 \* s1

s3 := math.Log10(r[1])

S3 += s3

S4 += s1 \* s3

}

n := float64(len(arr))

a = math.Pow(float64(10), (S3\*S2 - S4\*S1)/(n \* S2 - S1 \* S1))

b = (n \* S4 - S1\*S3)/(n \* S2 - S1 \* S1)

return

}