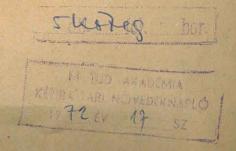
Ms 5098/1-5. Ethis lordend a kapillasitation matters'
any appropriétée



ecceller J.L.m.k. edyart papir es festőszer

kereskedéséből Rigyo utcza 4 sz Post

U.I.h. Homon destillalle vir felicht Th. Kimetten Seliter when meting breva alatt. Therdolith coor. x2-x, 500 millimeterther. 40°20' } megerin Meres 462 inegeralheralther a. I.h. homorn felicitet beva alatt, a hygro-TUDOMÁNYOS AKADÉMA netes allai a 17,4°C is 18;6 C. Thered. x2-x1 40°20' 7-250 40°20' -75 | 78 62°30' 0-22 ) 306 240 Isinallymai utain hygr, 18,50 és 3°C. 62°20' -141 1145-0 62.301 80 )300

H.I.d. Hujany folislet H.I.d. meghationorus as vinthegen wonal live likes + PA vorsutes so weticalis PA = 533 lentimetis Ah = 279,5 Centrin. x2-x0 = 369 Theod. 640  $\alpha = 2,363$ man with mires is heallitain PA = 533 C. Ma = 271,5 Therd. 60°301 x2-x,= 375 a = 2,382

VII. Honor destillalt verfelalt VII h.

selvitue Fanna: 15 d. e 8 h. 30 m. Theod. -95 }242 -250-250-60}465 800301 620301 465-400201 75-0-0 450 125 } 240 400 201 620001 115 800 301 befegine 10 is alor him Chelal. Eggnaron in nyugodlam ellute Jan 16 ilean D. e 8-10 a hovether's merend 266 800 301 -218--218--250-250-244) 526 620 301 400 201

		228		
40° 20'	234-0	250	on Way 5	7.15
62000	234-0 0-222 } 572 -0-207 } 265	222		
80°30'				
80000	221-250 -234 } 263 -250-40-242	27 y 26 3	5 1 35	
br. 201	-234 2 508	250 242 242 250 242 250 250 250 250 250 250 250 250 250 25	1	10000
40°20'	- 250 -20-242			11/2
40°201	0-0-240} 506	246		A 4"
62°36'	0-0-240	200	2/2-2-	1000
80000'	0-226 } 264	240 264		
80° 26 '	2/2 - 2000	14		
650001	212 - 200 -250-226 ) 264 -251-250-2063 570	236		
40.50,	-251-250-2065	250		in char
*				

.

VIII.d. Sombon vijslälet VII d. Will meres el 16 ilian 2, e 10 h 20 m - 11 h. Korvetlemil felom ter utan. 800 301 205 206 0-206 219 236 620 301 186 -250-200 - 64 0 - 64 } 422 42 2 400 201 67. \$420 420 420 400 201 620001 -250-200 219 800001 uggemaron felület D.n. 3 brakers 800001 76. 3214 620001 0-0-263796 400201 62000 -250-82 } 216 80000

VIIId. VIVd.	
80,00, 88 5 508	130
62° 50' -0-130 3 208 40° 20' 0-0-237	210
40° 20' 0-0-237' 40° 20' 218 - 250'	32
62°20' -250-135 } 417	230
80°20' -250-106} 221 62°30' -250-106} 221	106
Somborn virtelilet VIV.d	
ar elöbbi magarabbra intre iwi	4
Jan 16 de un the 20 m	
brieve 3h.27m - 3h.55m.	
62° 20' -200-192 222	164 18 22 2 1
40020 0-15 } 427	192
40° 20' 248- 3433	727
62° 30' -250-250-1875	200 114 224
800001 -250-155 } 224	554

.

No 5098/2 Malales Mada TUDOMANYOS AKADEMIA KONYVIARA

d'	$\frac{\gamma}{h} = \frac{1}{\cos \alpha} \left\{ \frac{1}{2} (1 + \cos \alpha) \int_{\frac{\pi}{4}}^{\frac{\pi}{4}} - \mathcal{E}_{\frac{\pi}{4}}^{\frac{\pi}{4}} \right\}$	$\frac{a}{h} = \frac{t_3 a}{r_2}$	$\frac{\tau}{\alpha} = \frac{\frac{\tau}{h}}{\frac{\alpha}{h}}$	$\frac{h}{a} = \frac{v_{\overline{z}}}{t_{\overline{y}} \alpha}$	2 hr.	Laplace. Poisson $\frac{2hn}{a!}\left(1+\left(1-\frac{\pi}{4}\right)\frac{T}{h}\right)$	$\frac{2hr(1+0,214b\frac{T}{h}-0,052\frac{T^{1}}{h})}{6,214b=1-\frac{T}{h}}$	Hugen $\frac{2hr}{a^{2}}\sqrt[3]{1+2\frac{r}{a^{2}}}$	$\frac{2\ln\left(1+2\left(1-\frac{\pi}{4}\right)\frac{r^{2}}{a^{2}}\right)}{a^{2}}$
0	0,	0,	0,	$\infty$	1,	1,	1,	1,	1,
10	0,0077619	0,1246820	0,0622360	8,0204000	0,99833	1,00000	1,00000	1,00091	1,00000
20	0,0328862	0,2573660	0, 1277867	3,8855180	0,99303	1,00004	0,99998	1,00373	1,00000
30	0,0819190	0,4082480	0,2006645	2,4494920	0,98306	1,00031	0,99997	1,00874	1,000018
40	0,1700450	0,5933340	0,2865920	1,6853920	0,96605	1,00130	0,99986	1,01627	1,00001
50	0,3328830	0,8426960	0,3950210	1,1866670	0,93752	1,00449	0,99909	1,02637	1,00002
60	0,6659470	1,2242460	0,5437440	0,8164950	0,88793	1,01482	0,99429	1,03664	1,00060
10	1,5016210	1,9427590	0,7729320	0,5147320	0, 7 9 5 7 1	1,05212	0,95875	1,03408	0,99744
80	4,8328000	4,0102000	1,2051280	0,2493640	0,60103	122432	0,49441	0,94643	0,97570
81	57091440	4,4644970	1,2787880	0,2239894					
82	6,3303430	5,0313270	1,3575630	0,1987547					
83	8,3322660	5, 7589230	1,4477130	0,1736436					
84	10,4462050	6, 2 2 6 2 2 0	1,5527280	0,1486398					
85	13,5619050	8,0822620	1,6779890	0,1237277					
86	18,5304100	10,1121000	1,8324990	0,09889142					
87	27,4313300	13,4924000	2,0330900	0,074115.8					
88	46,9221300	20,2488900	2,3175170	0,04938542					
83	113,6727800	40,5101200	2,8060350	0,0246852					
90	000	$\infty$	∞	0,					

d.	$\frac{\gamma}{h} = \frac{1}{\cos \alpha} \left\{ \frac{1}{2} (1 + \cos^2 \alpha) \int_{\frac{\pi}{4}}^{\frac{\pi}{4}} - \mathcal{E}_{\frac{\pi}{4}}^{\frac{\pi}{4}} \right\}$	$\frac{\alpha}{h} = \frac{t_g \alpha}{v_2}$	$\frac{\tau}{\alpha} = \frac{\frac{\tau}{h}}{\frac{a}{h}}$	$\frac{h}{a} = \frac{v_{\overline{2}}}{t_{\overline{3}}\alpha}$	2hr ar	Laplace - Poisson $\frac{2hn}{a^2}\left(1+\left(1-\frac{\pi}{9}\right)\frac{\tau}{h}\right)$	Volkmann  2hr (1+0,2146 + 0,052 + 1) 0,2146 = 1- #	2hr 1/1+2 71	$\frac{2hx}{a^2}\left(1+2\left(1-\frac{\pi}{4}\right)\frac{x^2}{a^2}\right)$
0	0,	0,	0,	00	1,	1,	1,	1,	1,
10	0,0077619	0,1246820	0,0622360	8,0204000	0,99833	1,00000	1,00000	1,00091	1,00000
20	0,0328862	0,2573660	0,1277867	3,8855180	0,99303	1,00004	0,99998	1,00373	1,00000
30	0,0819190	0,4082480	0,2006645	2,4494920	0,98306	1,00031	0,99997	1,00874	1,000018
40	0,1700450	0,5933340	0,2865920	1,6853920	0,96605	1,00130	0,99986	1,01627	1,00001
50	0,3328830	0,8426960	0,3950210	1,1866670	0,93752	1,00449	0,99909	1,02637	1,00002
60-	0,6659470	1,2242460	0,5437440	0,8164950	0,88793	1,01482	0,99429	1,03664	1,00060
70	1,5016210	1,9427590	0,7729320	0,5147320	0, 7 9 5 7 1	1,05212	0,95875	1,03408	0,99744
80	4,8328000	4,0102000	1,2051280	0,2493640	0,60103	1, 22 43 7	0,49441	0,94643	0,97570
81	57091440	4,4644970	1,2787880	0,2239894					
82	6,8303430	5,0313270	1,3575630	0,1987542					
83		5,7589230	1,4477130	0,1736436					
	10,4462050								
	13,5619050								
	18,5304100								
	27,4313300								
	46,9221300								
89	113,6727800	40,5101200	2,8060350	0,0246852					
90	000	$\infty$	∞	0,					

				9.26	Sea Total Ellips	100 may			
d.	$\frac{\gamma}{h} = \frac{1}{\cos \alpha} \left\{ \frac{1}{2} (1 \cos \alpha) \int_{\frac{\pi}{4}}^{\frac{\pi}{4}} - \mathcal{E}_{\frac{\pi}{4}}^{\frac{\pi}{4}} \right\}$	$\frac{\alpha}{h} = \frac{t_3 \alpha}{r_2}$	$\frac{\tau}{\alpha} = \frac{\frac{\tau}{h}}{\frac{a}{h}}$	$\frac{h}{a} = \frac{v_2}{t_3 x}$	2hc_a2	Laplace. Poisson $\frac{2hn}{a!}\left(1+\left(1-\frac{\pi}{4}\right)\frac{T}{h}\right)$	Volkmann 2hr (1+0,2146	Hugen  2hr 1/1+27  at 11+2ai	$\frac{2hc}{a^2}\left(1+2\left(1-\frac{\pi}{4}\right)\frac{\tau^4}{a^2}\right)$
0	0,	0,	0,	00	1,	1,	1,	1,	1,
10	0,0077619	0,1246820	0,0622360	8,0204000	0,99833	1,00000	1,00000	1,00091	1,00000
20	0,0328862	0,2573660	0,1277867	3,8855180	0,99303	1,00004	0,99998	1,00373	1,00000
30	0,0819190	0,4082480	0,2006645	2,4494920	0,98306	1,00031	0,99991	1,00874	1,000018
40	0,1700450	0,5933340	0,2865920	1,6853920	0,96605	1,00130	0,99986	1,01627	1,00001
50	0,3328830	0,8426960	0,3950210	1,1866670	0,93752	1,00449	0,99909	1,0.2 637	1,00002
60	0,665947.0	1,2247460	0,5437440	0,8164950	0,88793	1,01482	0,99429	1,03664	1,00060
1.70	1,5016210	1,9427590	0,7729320	0,514 7320	0, 7 9 5 7 1	1,05212	0,95875	1,03408	0,99744
80	4,8328000	4,0102000	1,2051280	0,2493640	0,60103	122432	0,49441	0,94643	0,97570
81	57091440	4,4644970	1, 2 7 8 7 8 8 0	0,2239894					
82	6,8303430	5,0313270	1,3575630	0,1987542					
83			1,4477130	0,1736436					
	10,4462050								
	13,5619050								
	18,5304100								
	27,4313300								
88	46,9221300	20,2488900	2,3175170	0,04938542					
	113,6727800	40,51012.00	2,8060350	0,0246852					
90	$\infty$	00	00	0,		40.5			
L					91/2				

1 10

d°	$\frac{T}{\int_{\Gamma_{i}} e^{\frac{1}{2}} \int_{Cosa}^{1} \left(1 + cos^{2}a^{i}\right) \int_{\frac{\pi}{4}}^{\frac{\pi}{4}} - \mathcal{E}_{\frac{\pi}{4}}^{\frac{\pi}{4}} \right\}$	$\frac{a}{h} = \frac{t_3 \alpha}{r_2}$	$\frac{\tau}{\alpha} = \frac{\frac{\tau}{h}}{\frac{a}{h}}$	$\frac{h}{a} = \frac{v_{\overline{z}}}{t_{\overline{y}}\alpha}$	2hr a²	Paplace. Poisson $\frac{2hr}{a^2}\left(1+\left(1-\frac{\pi}{4}\right)\frac{\tau}{h}\right)$	Volkmann  2hr (1+0,2146 = 0,052 = 1)  0,2146 = 1 - 1/4	Hugen 2hr 13 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +	$\frac{2hc}{a^2}\left(1+2\left(1-\frac{\pi}{4}\right)\frac{\tau^4}{a^2}\right)$
0	0,	0,	0,	∞	1,	1,	1,	1,	1,
10	0,0077619	0,1246820	0,0622360	8,0204000	0,99833	1,00000	1,00000	1,00091	1,00000
20	0,0328862	0,2573660	0,1277867	3,8855180	0,99303	1,00004	0,99998	1,003 7 3	1,00000
30	0,0819190	0,4082480	0,2006645	2,4494920	0,98306	1,00031	0,99992	1,00874	1,000018
40	0,1700450	0,5933340	0,2865920	1,6853920	0,96605	1,00130	0,99986	1,01627	1,00001
50	0,3328830	0,8426960	0,3950210	1,1866670	0,93752	1,00449	0,99909	1,02637	1,00002
60	0,6659470	. 1,2242460	0,5437440	0,8164950	0,88793	1,01482	0,99429	1,03664	1,00060
70	1,5016210	1,9427590	0,7729320	0,5147320	0,79571	1,05212	0,95875	1,03408	0,99744
80	4,8328000	4,0102000	1,2051280	0,2493640	0,60103	1,22432	0,49441	0,94643	0,97570
81	57091440	4,4644970	1,2787880	0,2239894					
82	6,3303430	5,0313270	1,3575630	0,1987542					
83	8,3322660	5,7589230	1,4477130	0,1736436					
84	10,4462050	6, 22 7 6 7 2 0	1,552 ₹ 280	0,148 6398					
85	13,5619050	8,0822620	1,6779890	0,1237277					
- 86	18,5304100	10,1121000	1,8324990	0,09889142					
87	27,4313300	13,4924000	2,0330900	0,0741158					
88	46,9221300	20,2488900	2,3175170	0,04938542					
89	113,6727800	40,5101200	2,8060350	0,0246852					
90	$\infty$	00	$\infty$	0,					
Marine Motor									

Capillaritai 5. br Undoloide en Novoide Julytalai a 11KSI = VI-Kings  $Z = -d_2 \int L(k, l) dl + d_1 \int dl dl$   $u^2 = -d_1^2 \sin^2 l + d_2^2 \cos^2 l + d_3^2 \cos^2 l + d_4^2 \cos^2 l + d_5^2 \cos^2 l$ musheles por. 7 = - de sin & 12 = 92 eor 2. 82+42 = d2 him Zeret a felro get. Z= -d, S(x, h) - d, E(x, h) Ear elso på, I a zik faja ellegsticen tukaris. 1 122 4, sin ist + de corde, & - 00 hil + 00 ig. & 0→ 1/2. Z=0 1==d, I'-d, E' u==v. 8=17 == x2 I'-d, 28 = 220 m + d2 =320 le ± d. A = - 2 70 = d. I' + d, E' = = ±4. A= m 2 = 220 u=+de ec.

Lamis mork hogy beg cit.  $\frac{dz}{du} = \frac{u^2 \pm d_1 d_2}{\sqrt{u^2 - d_1}(4z - u^2)}$ At mey a gyölijelnet + = jele lebet, met erol meggy o' vidhetiint, ha a Nieplek halehlarese a werne vina. - & a mi eretinhelew afelio't pary harinalundo sha Ripolente a Viu-à, (di-u') pos. about a te liet, my.  $\frac{dr}{du} = \frac{u^2 + d_1 d_2}{+ R}$ dr = u'+d, d. dr er du novelrederes

# R Exery clo pluies  $\frac{dr}{du} = -\frac{u}{R} + \frac{2}{R} = \frac{u}{R}$ the him eyento vendebol on etere 8 = - T tol 8 = - 17 ig. dr = ty w w= & (u, esuto") Er a nøylet. de størred i der = 1 de du der = de (u2+ e, de)

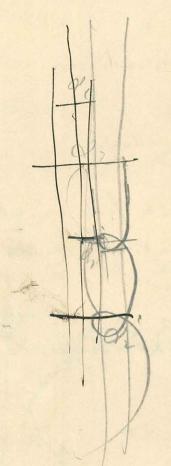
der = 2m + (u2+ disc) die R= V(u-4, )(di-u2) d? = u (d, +d)(u2 - d, d) de = cor w " (d, + d; ) (u2 - 1, di) wa nøylet melyet a - T to's - T ig no velesto' dagen heger ar u lengelye. a noglet eleiste fag vegre lag u = d.d. , writing noon hajtuigent, en Rexioniqueles, Undulvide.

and the same of

Z=-arf+d, E.

Z=-arf+d, E.

Or enelly mute 20



$$\frac{dr}{dw} = \frac{u' - d_1 u_2}{R}$$

$$R = V$$

$$u = d_1 \qquad \frac{dr}{du} = 1 \infty$$

$$u = \sqrt{a_1 \cdot a_2} \quad \frac{dr}{du} = 0$$

$$u = \sqrt{a_1 \cdot a_2} \quad \frac{dr}{du} = 0$$

$$u = \sqrt{a_1 \cdot a_2} \quad \frac{dr}{du} = -\infty$$

$$\frac{dr}{du} = t_1 w \qquad \frac{dw}{du} = corres \frac{a_1^2}{a_2^2}$$

2=0 dz e tow и MAGYAK TUDOMÁNYOS AKADÉMAA KONYVIÁRA

Csepp, John iniverbalis hikand alapper, A Titeling vall (= +1) -(= +1) = - 5 (xdp + 4dq + 4dq + 4dq és dz-jaro A nehertleves i erøre nerne fixta-lidge lots f eral a g lo. nethermenge. I egg han ? keyely in neens as giranjuval  $\left(\frac{1}{g_1} + \frac{1}{g_2}\right) - \left(\frac{1}{g_2} + \frac{1}{g_2}\right) = -\frac{09}{3}(z'-z)$ 8, + 1 = 9: + 1 + 69(z-z') Crepy Josejas i felislet. a telo port 0 2 lefelé paritis. alphor 2'=0 g' = g' = e' that. 9, 4 = 2 + Clos I Jong in Illitatelere nerve  $\frac{1}{\xi_1} + \frac{1}{\xi_2} = \frac{d^2z}{du^2} + \frac{dr}{du}$   $\frac{1}{\xi_1} + \frac{1}{\xi_2} = \frac{d^2z}{du^2} + \frac{dr}{du}$  $\left(\frac{1}{8}, + \frac{1}{8}\right)$  udn =  $d\left\{\frac{n \frac{dn}{dn}}{\left[1 + \left(\frac{dn}{2}\right)^{2}\right]^{\frac{1}{2}}}\right\}$ 

tehåt tehis lette vine hary de alyw d vityw = 2 nou + czudu S Jutyw = 2 Judu + e Jzudu  $(g_w)_{u_0} = tg \varphi$   $\frac{u_0 tg \varphi}{VI + tg \varphi} = \frac{2}{9} \frac{u_0^2}{2} + C z \frac{u_0^2}{2} - \frac{c}{2} \int u^2 dz$  $\frac{\pi \int u^2 dx}{v} = V \qquad \frac{t_g \varphi}{V_{I} + t_g \varphi} = \sin \varphi$ Moding = 10 + CZ 10 2 - C 1 To = \( \frac{C}{2\pi} V + u\_0 din \varphi - \frac{u\_0}{\varphi} \right) \frac{2}{c} u\_0^2 20 = This + 2 emp - 2 A much V nagyabbodils nyg inhabb es inhabb elharquepolletoh ar utobbi lougol ar elio" e aux Leheit lun Eo = 1 Tuo MAGYAR TUDOMERYOS AKADÉMIA Lehat ha navya ti jugat alkor a Jelislah n hvorroutalister høreledig.

260

Egypeletin bled hovethoris  $C = \frac{2 u_0 \left( \sin \varphi - \frac{u_0}{\varphi_1} \right)}{Z_0 u_0^2 - \frac{V}{71}}$ 

Quinche P. am. 120.

P1.	temperale 2000 °C	- 169,04
an	1200	= 100,22
Hg	-40	- 58 ,79
Cley	1000	42,75
Pb	220	45,66
Sulfus	111	4,25
		64

Nayy ede ugle til lemer mero legenen hemartura. Er erellen henge felület magariagi idaieg a artstengte a folyavel a landtol havor horisontalis Tougelyneadows: xyrth a horror talistoly adely feliclet I temply herentmetriste a siknal a leverplicated Za neherhederi ero" cranga. noherheden evre verve alogogyment 京、ナラレンラ・ナラ・ナガ(マーと) ha l'egy pont a horrontales plisteken un te. Leve: C= 3 es = - (1+9) x - 2pqx +(1+p2) t - aret mest mi mær a fici e iranjar a nerne  $f = \frac{dr}{dx} \quad q = \frac{dr}{dy} \quad r = \frac{dr}{dx^2}$ A nohastof ofte lind i ligg ary tol. Er evelhen geo se o es teo J= 22 1= 22 1= 242 Dehal - The state of the MAGYAR ZUDOMÉNYOS AKADÉMKA KONYVIARA

 $-\frac{\frac{d^2r}{dx^2}}{\left(1+\frac{dx^2}{dx}\right)^{\frac{2}{2}}} = CZ \quad c \text{ mindig negation}.$ 

 $-\frac{\frac{d?}{dx^2}}{\left(1+\frac{dh}{dx}\right)^{\frac{3}{2}}} = C^{\frac{3}{2}}$ Is a riviglet, ar evento es 2 tengely ho with our ésintost a mo where x - sh ple hurry . de = - 1 ad de 1) Ha I poritiv nyy der por er ny de negativ. 2) Ha 2 negativ akhovite neg és ny at positio. Mind het enther ha & veges way dis = 0 Lehah In: Court = To Malanos la folg às abboil là lich :  $\frac{d^2z}{dx^2} = \frac{d^2z}{dr} \frac{dz}{dx}$  $-\frac{dr}{dx}d\frac{dr}{dx} = cZdx$   $\left(1+\left(\frac{dr}{dx}\right)^{\frac{1}{2}}\right)^{\frac{1}{2}}$ in Legralo a VI+do = 22+ C 1 Hdr 2 = u alehor 2 dr d dr = du és enje - la Sidu = 1

tehinkelbe neve, hagy 2=0 onllen de = 0 len C=1 lehal. VI + day = = = 2 2 + 1 wayy tehin hethe viewe hogy of = coly or Sin & = = 2 2 + 1 Er első Integrálból aron husgan agad talathaljas my a fulgadely emellocity, Matiley aloicity \* Legn v. beglierebb ar a lemerrel erenthero" Lehat aron pontheur melyre nerve X = 0. Oll egy ner wind I = 4 er in khorere mag aron mayornaget Zo al jolelue len.  $\dim \varphi = \frac{c}{2} \frac{z^2}{2} + 1$ € = + (2 (sin φ - 1) 20= + 12 (1 - ding) U hal a felső jel a hono domborn aralis jel a homovis feluletre vonatlevil,

20= = 1/2 /(1 - sing) felső jel domlovis alső jel homoris.  $cor \varphi = -\frac{\alpha}{y}$ Ha & positiv aller nagyobb vouras ar edeny falaihor mint a folgaséhhor - arest ar celeng falor megnednerittetis saron folyade lereteg helettais. Ily erethen wrutain a folyeidély mongavel eralle rite 1 at erinkheres folislet egynegenet holetlærere åltal a trabad felis læt egyseg megremminttetik Lehat - I munha veges telik egg er esether d=-y en corq=1 9=0 Erew elso entres misson megfelelø leg teliat, = 20= -1/2 er pedry ahor milyen løggen a milard edeny Jala. I chat p. vix re nove 20 mendig uggenar aliar ivey what may to the anyayban pyluthubuel, melyet megseelvent. -A g-relidy modor each ery tropy to not Wiself estable laked her a

Vire nerve 20 = 3,00 million. Nem igg len ar ablor hu & nøgatis alder cor & h nægatis. Nædrænter nines er ælta laban 20 = + 1-0 VI - sing tovabbi untegratio.  $\frac{1}{\sqrt{1+\left(\frac{dr}{dx}\right)^2}} = \frac{c}{2}z^2 + 1$  $1 = \left(\frac{c}{2}z^{2} + 1\right)^{2} + \left(\frac{dz}{dx}\right)^{2} \left(\frac{c}{2}z^{2} + 1\right)^{2}$ r leynoup beste he.  $\frac{dr}{dx} = \pm \frac{\sqrt{-\frac{c^2}{4}z^4 + cz^2}}{\left(\frac{c}{2}z^2 + 1\right)}$ & lagrange Me estate.  $\frac{dr}{dx} = \frac{+}{z} \frac{z\sqrt{-c(1+\frac{c}{4}z^2)}}{\frac{c}{2}z^2+1}$ 1-2 lehat dy moder a gyphyel mendy nealer ha 2 positiv ables de negativo, ha & negativo ables ar pointes tehat a het jet homis ar alró hannáloendó en egy MAGYAR TUDOMÉNTOS AKADÉMIA

May for without a his sugarost a

$$\frac{dx}{d\overline{z}} = -\frac{\frac{c}{z}z^{2}+1}{z\sqrt{-c(1+\frac{cz^{2}}{y})}}$$
The hist

$$x = -\frac{c}{z}\int \frac{zdz}{\sqrt{-c(1+\frac{cz^{2}}{y})}} + C$$

$$x = -\frac{c}{z}\int \frac{zdz}{\sqrt{-c(1+\frac{cz^{2}}{y})}} + C$$

$$x = -\frac{c}{z}\int \frac{zdz}{\sqrt{-c(1+\frac{cz^{2}}{y})}} - \frac{dz}{z\sqrt{-c(1+\frac{cz^{2}}{y})}} + C$$

$$\frac{zdz}{\sqrt{-c(1+\frac{cz^{2}}{y})}} - \frac{c}{z\sqrt{-c(1+\frac{cz^{2}}{y})}} + C$$

$$\frac{-c^{2}}{z^{2}}\int \frac{dz}{\sqrt{-c(1+\frac{cz^{2}}{y})}}$$

$$\frac{z}{\sqrt{-c(1+\frac{cz^{2}}{y})}} - \frac{z}{\sqrt{-c}}\int \frac{dz}{\sqrt{-c}} - \frac{z}{\sqrt{-c}}\int \frac{dz}{\sqrt{-c}}$$

$$\frac{z}{\sqrt{-c}}\int \frac{dz}{\sqrt{-c}} - \frac{z}{\sqrt{-c}}\int \frac{dz}{\sqrt{-c}}$$

$$\frac{dz}{\sqrt{-c}}\int \frac{dz}{\sqrt{-c}}\int \frac{dz}{\sqrt{-c}}\int$$

$$-\frac{c^2}{4}du = 2vdv$$

$$du = -8vdv$$

$$\frac{c^2}{c^2}$$

$$u = -\frac{4(v^2 + c^2)}{c^2}$$

ely modor in Legralus ben.

$$\frac{18}{2c^2} \cdot \frac{c^2}{4} \int \frac{v dv}{(v^2 + c)v} = \int \frac{dv}{(c+v^2)^2} = \frac{c}{\sqrt{-c}} \int \frac{dx}{1-x^2} = \frac{c}{2\sqrt{-c}} \log \left(\frac{1+x}{1-x}\right)$$

$$\frac{\sqrt{v}}{\sqrt{v}} = x^{2}$$

$$\frac{\sqrt{v}}{\sqrt{v}} = x$$

$$= \frac{\sqrt{-c} \log \left( \frac{\sqrt{-c} + \sqrt{-c}}{\sqrt{-c} - v} \right)}{2 \log \left( \frac{\sqrt{-c} + \sqrt{-c} - \frac{c^2}{4} z^2}{\sqrt{-c} - \sqrt{-c} - \frac{c^2}{4} z^2} \right)}$$

$$X = -\frac{2}{\sqrt{1-c}}$$

$$X = \frac{1}{\sqrt{1-c}}\sqrt{1+z^2} - \frac{\sqrt{1-c}}{2}\log\left(\frac{1+\sqrt{1+\frac{c}{4}z^2}}{1-\sqrt{1+\frac{c}{4}z^2}}\right)$$

magyar fudəm.54yos akad**rma** könyvtara

0 :

## Capillavita's.

Mayy Denyke sik lemer merölegeren bemartva. Ar alaperyerlet voll.

$$8(\frac{1}{8}, + \frac{1}{8}) - (\frac{1}{8}, + \frac{1}{8}) = 6(x_{4x} + y_{6y} + 2dx)$$

Ly sik beggen a horrontolis folgalel, plisted - al tergely ar attol felfele hirok nero'byer, alkhor y=0 X=0 Z=-g tehat

$$\mathcal{F}_{s}'(\vec{s}_{i} + \vec{s}_{i}') - (\vec{s}_{i} + \vec{s}_{i}') = -\frac{\sigma}{g}g(z'-z)$$

ha 'g'z' a horrontali felislet ery pontja usy ob g' os
eq g = 0, ugy hogy teve og = 0

$$\frac{1}{8}$$
,  $\frac{1}{8}$  = cz

$$\frac{\vec{\xi}_{1} + \vec{\xi}_{2}}{\vec{\xi}_{1}} = \frac{(1+q^{2})x - 2pq_{0} + (1+p^{2})t}{(1+p^{2}+q^{2})^{\frac{2}{2}}}$$

MAGYAR DOMÁNIOS ARADÉMIA KÖNYYYÁRA

$$p = \frac{\partial z}{\partial x} \qquad q = \frac{\partial z}{\partial y} \qquad r = \frac{\partial^2 z}{\partial x^2} \qquad s = \frac{\partial^2 z}{\partial x^2} \qquad t = \frac{\partial^2 z}{\partial y}$$
exether has y a horse of a significant formula of the s

er eretben la y a horrontali signel és a bemætok dels felés. letrels herentmets whe way mind a ? mind annols d'eff. hayadra,

függetlenels ar y-tal, my hogy: hen tehat 9, 92 (1+day) = CZ dx ty( a t) = dr to a singlest into es ? leng 1) Fla & positio alcher du regatio lehat des positio i ei je a folgude like he hurok try wahet pleitet o energe a félilet dombovú ha ? negotió, homovi ha ? portro,

Integration.

$$\frac{dh}{dx} = \frac{d \frac{dh}{dx}}{dx} \cdot \frac{dh}{dx}$$

$$\frac{dh}{dx} \frac{dh}{dx} \cdot \frac{dh}{dx}$$

$$\frac{dh}{dx} \frac{dh}{dx} \cdot \frac{dh}{dx} = cxdx$$

$$\frac{dh}{(1+\frac{dh}{(xx)})^2} = cxdx$$

$$\frac{dh}{(1+\frac{dh}{(xx)})^2} = cxdx$$

$$\frac{dh}{dx} \frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx}$$

$$\int u^h du = \frac{u^{h+1}}{u^{h+1}}$$

$$\frac{dh}{(xx)} = \frac{dh}{dx} = cxdx$$

$$\frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = cxdx$$

$$\frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = cxdx$$

$$\frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = cxdx$$

$$\frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = cxdx$$

$$\frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = cxdx$$

$$\frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = cxdx$$

$$\frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{dx} = cxdx$$

$$\frac{dh}{dx} = \frac{dh}{dx} = \frac{dh}{$$

Ha dombrin folialet alles of heryes rivy
ha homorin alle of horyeris her tipel a hegger very

- jel a tompa ung ereteben hannalænde.

Donne nieme in mange Marger (Mur die Oberfläche
ser flierigheiten, Abhandl. D. Maliner alked. o. w. 1845

c) 1846) ars lalalla hogy to mindry ugganar esteil
Lorga ner, ivey spala, vary falenerelet måtets he.

Sine nerve

$$20 = 3,09$$
 millimetes

 $\sqrt{-\frac{2}{c}} = 3,09$ 
 $-\frac{2}{c} = 3,09^2 = 9,55$  m.m.

 $-\frac{28}{59} = 9,55$  m.m.

 $5 = 1$ 
 $9 = 9514,360$  mm.

1 1/84

建了

Koindelan duch. Felületi reteg leterik. Siahar beliteten ar egypeg alabiteiare brushe hell. Er a muchen frygetlæn a Gothulellig E of en negation. - Eminha jugethen a kilső beható esőktál a. hörös felő letre vello musher hell of hay + wagy - teket alapseyyentetel. Leger crollhel,

Vilanium hi egy f. é.

Cyy fi fetületet ing hayy

KONYJARA

fi = fr Roman el mind lutta y

egyento modom If klir ketelemelne

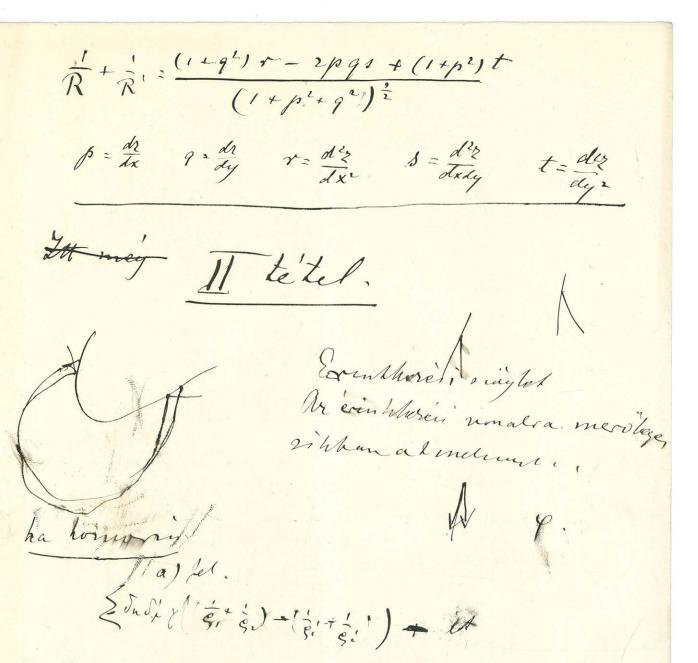
Lem alvo, tele. Letiro logo folyadely kling legar eröllhel; En america hetto St. 25 Stdx+ Ydy + ldr) & allamo St. = 8,8, E. E. St. = 478 (8, + Sn 82 + Sn 78, 82 (1-x1)

a felulate mente = 25/ Sud ( = + = ) - E Sh Sud ( = + = ) 55/FollXdx + Ydy + ldr) +d(\$,+\$,) - d;+\$,120 megfordetus 5021 >=0 Robal 20 1=0 O(Xdx + 4dy + 2dr) + x (\$\frac{1}{5}, + \frac{1}{5}, ) - (\frac{1}{5}, + \frac{1}{5}, ) = 0 X 42 avgestarting ent X Y 1 20 Melen gris fornetrect mero lege meteres

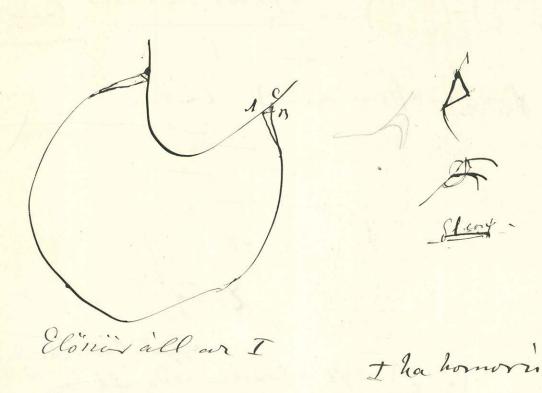
Wet alaphete I nel tolque a of - chek on -el hefele alkhor. plistet nagyobbodas = Sfor ( ; + ;) Ha o poritio midro a felilette å Julyade hor kifele, negutiv ha hefele ent. 2 mel. len. - St Su(=1+1) tehat a vegrell moleculary. hunka. Stony ( ; + ; ) - ( ; + ; )

A veges tavolhan hato coo'h ir anyahan negesell 5/ Sn 6 ( XI Sf Su o S(Xdo + Udy + lds) Sof Suf ste. + is ) - (i + i) + # of Xdy + 4dy + 1dy) =0 a megfræðiluk er egg = 0. A formeh inhengered ha a { } new mull my behetne valtortalni my houry & re beene sull believe (=, +=) -(=, -=;) = 5 [Xdx + 4dy + 2dr) = + = = 5 (x. xx + 40x + 20x)

. .



MAGYAR ZUDOMÁ PYOS AKADÉMIA KÖNYVYÁRA It tetel



Stange of the Shapers ARADERS ENTERED Sing of the corp on the Sing of the Shapers of the Shapers

It Letel. contheres way, ar eruth mon \$ 10 I homor I ill ar i no telet.

tehat ar i reie municipa elecit. tehat vr/reir menleiga. na ar f. jeheletre ellezer Zi Su St.dn my a MM herenhalum fyring Hly 42. menteg a vygader I lu. renti. My afelistate u lug I to rendriely bushed.

Ande ey plijlet heletherely, melyneg Nene. Bl du Bl = St cosq er ig ernekherent selisted medgnet elere 581. That minter Son Al(x yeng)

 $cor \varphi = -\frac{y}{x}$ Sombony A A A helekhærung ig sulvad felielet eleme:

- St + St corp +

Morgai, eggenlet ar eretten alapele midon la Chato morgas nenes et midon a belso elevero o hotnere les eggernily sun The said profession was a server with the share Ha egy test lathato eggenly has van vigy ar amost jelet hory th =0 en horry har will e helyrete bol Rimorditjulg ar Stabel, abban vary megfog med vary megmaradni vary egyenlete, Mentral. reherregget moragni fug. to a litre nerve lece. . W Lk + L6 = U+C Lohjish mey a lestet my kury himah portione annal lionet. Nertetien Letred lyer hely retable Joshanand . Weller a loke all pillanata han

L+1/4 + L+1/4 = U + C' a hat C:= Thosh e rendruer annel howther te ben a hnery By mois helprothe. L+20 5 Lh + L1 + 20 + St6 = U+C' SU = [52h - 12h] + [526 - 126) Eyenny eretiben Th-Ath = negatio, 1) Ith-Ith = a lathati eleview en noveledere 2) [Th-1126] a meloy traporoda, a wralet Or eyes a foly amat alout het doley liviteis

a) Eleven en menhaver es melegge alabet. a Al meley etterped , a his hen annah egg rene mentiava aloched. Ataktetal Er a ren aronham. All her JU = Sts-Ath. heyer o mer Ato ds cy ent widon pedig det veg belen hiering SU = SU-126, er enther. in 2U,=m, - m SU + SU = [mezon] + [por; +] - 16 hig. neg. al mindy porto lec. de his ebb much All, rehat Ill mindy negative neg TH mundig negoti the (Sth-str) por de - - foor

Moleculari eril Kumbe heistelei. Felte Zell Seilen Ze, Zel fulgadelos Baralaquial mongiliongray, Tolgadi livh örnengonha toi ag, felis lette reteg. toly ave holy 11 Many Monge Kory roig Teleast en el "brallalenarhato. (1) or engormhater any 3) hymnin eggalo rege, Market Andrews

molecularing eroly ratar live. Chunche Pays. am. 1869 Rong. Muey a trienton at verre 0,0000542 13 - Kensruston at Hy. 0,0000482 h. 1-- Toderiesting Hy, Collodermon Hy 0,0000590 1 0,0000797 from the to took to ele u Hatar sphira. 水塘两 At At pe. A + dy, + dy + dy, Wilhelmy Pary lun. 109. Sivi den Mitoro tenjoro. verdellegowell MAGYAR ful uly . 1 5 million . Milly recent the KONYVIARA liest Cethylaliohol

liest 0.0,793 teag-1705

Whey 0,01259 hulaliwhal , " " " 0,815 / Enge 150 0101160 alimmum - 0,00716 0,01242 link -0,00057 0,00009 0,00786 Platui - 0,00641 0,00449 Aer. 0,00467 0,00405 Hyrenis be mestra built.

Y abstulet eggreg re milenege,

I tetel. ( ; + ; ) - (; + ; ) = - 5 [Xdx + 4dq + Zdr) I drein theren troughed p = loud in peday. corp = -x Hat ear aligns tett alwhol er vor heveretiele ablur a Newton file torne my recent bestones with X, 4,2 = 0 g. + = = C. Plateau. Mémoires de l'académie voyale de Belgique XVI, XXXI, XXX, XXXI Annah elmélete: Statique expérimentale et Becer Tractatus de théorique des liggide, Plateau 1875 Mandhematica phaeno. menorum-in liquidis actions gravitatis detractes observatorum. Bonn 1857 Cinterling to dee math. Heorie un Elis a Coepaller 18ty

Lehin tettre were, horry ë, ë, = (1+q2)x - 2/290 + (1+p2)+ hal.  $p = \frac{dz}{dx} = \frac{dz}{dy} = \frac{d^2z}{dx^2} = \frac{\partial^2z}{\partial x \partial y} = \frac{\partial^2z}{\partial y^2}$ Ritinih hogy & & = c. a plie letel egy hillinis nevet fejerih ki, t. i. ar allandó Zeifagah mellet. minimalis felisletet, a superficier minimus area - L allands Thespayax mullets . -Egy fetiletnes mely ude cypenlete & flx,y) hiterjede O meh minimumit End theremity aron feltest mellett hogy U = //2 drdy = Court. vary //2-a) drdy = 0 a fel adak a Variatió viami tai hivré he ents: Or area tanit: and hory a maximum ber about maximum

len. If 1 + p2 + q2 + M(2-d) dxdy neh. I hayy arutain the ha Water SV dx dy may immen a herestetil, a hal V = f(xyz pg) alhor hell hayy menimine este been loggen:  $N - \frac{dP}{dx} - \frac{dQ}{dy} = 0$ a hol  $N = \frac{\partial V}{\partial z} P = \frac{\partial V}{\partial p} Q = \frac{\partial V}{\partial q}$ a mi entienleten. Magyar  $V = V_1 + p^2 + q^2 + dz - d\alpha$ Magyar

TUDOMÉTVOS ARADEMIA

KONYVIARA

RONYVIARA

What. min ann dere midoin. XXVI+pi+qi+ dy V+pi+qi=d

+ + 12 + 19

 $= \frac{x+t+p^2x+p^2t+q^2x+p^2t-p^2x-2pqs-q^2t}{(1+p^2+q^2)^{\frac{3}{2}}}$ 

 $\frac{(1+q^2)\tau - 2pq\delta + (t+p^2)t}{(t+p^2+q^2)^{\frac{1}{2}}} = 1 = longt.$ 

Vegkelen ter ben. At en tylender beilan terkor.
ratatio feliclet. - a notand legales legges
= a 2 lengely, an attal tervolog X wietry

$$p = \frac{\partial z}{\partial x} = \frac{1}{x} \cdot \frac{dz}{du} \cdot x = \frac{d^2z}{dx} \cdot \frac{x^2}{u^2} \cdot \frac{dz}{du} + \frac{y^2}{u^2} \cdot \frac{dz}{du}$$

 $\int = \frac{d^2r}{\partial x^2} = \frac{xy}{u^2} \frac{d^2r}{\partial u^2} = \frac{xy}{u^2} \frac{dr}{\partial x}$   $q = \frac{dr}{dy} = \frac{y}{u} \frac{dr}{\partial u}$   $f = \frac{d^2r}{dy^2} = \frac{x^2}{u^2} \frac{dr}{du}$   $f = \frac{d^2r}{dy^2} = \frac{x^2}{u^2} \frac{dr}{du}$ 

/

les 2

Laplace

20 lap.

ing her :  $\frac{dr}{(1+fdr^2)^2} + \frac{dr}{du} = Cu$ 1)  $d\left\{\frac{u\frac{dr}{du}}{\left[1+\left(\frac{dr}{du}\right)^{2}\right]^{\frac{1}{2}}}\right\} = Cudu$ berong ter Riscountai altal

fely du du

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

[ ] 

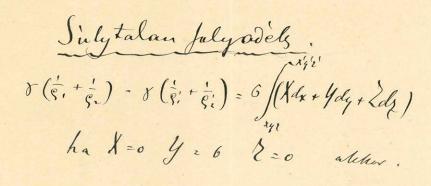
[ ] 

[ ] 

[ ]

1) bas howethertete illas Beet 162 lap.

u[x+dr) - h dir



Maximal vary & to C. minimae vary maximae areae Minimalfelistet állandó tei fugal mellelt.

Plateau, Mémoires de l'acadenie royale de helgique - arota irus.

gyiftre. Statique experimentale et théoriques des lequides 1873.

Beer Tractates de theorie.

Beer Tractatus de Chevria mosthematica phosenomenorum in liquidis actioni gravitatis delractis observativum.

Beer Einteitung in die math. theoriee des Elashe 4. Capull. A legegysserie ble megolian a giomb.

ha lii. egy ni hend test mintatil he, mely forgan felicales let alkal hatarolkatils. Forgan feliclebeline nerve

$$\left(\frac{1}{q}, +\frac{1}{q}\right)$$
 udu =  $d \cdot \frac{dr}{du}$ 

emel alogy an er eather :

$$d\left\{\frac{u\frac{du}{du}}{\sqrt{1+\frac{du}{du}}}\right\} = cudu$$

$$\frac{2u\frac{du}{du}}{\sqrt{1+\frac{du}{du}}} = c\frac{u^2}{4} + c'$$

$$\frac{du}{\sqrt{2u^2-(u^2+c')}} = (cu^2+c')^2$$

$$dt = \frac{(cu^2+c')}{\sqrt{2u^2-(u^2+c')^2}}$$

$$dt = \frac{(u^2+c')}{\sqrt{2u^2-(u^2+c')^2}}$$

$$-\frac{4u}{c^2} + (u^2+c')^2 = (u^2-u^2)(u^2-u^2)$$

$$u^2 = \frac{4u^2}{c^2} + (u^2+c')^2 = 0$$

$$u^2 = \frac{4u^2}{c^2} + (u^2+c')^2 + (u^2+c')^2 = 0$$

$$u^2 = \frac{4u^2}{c^2} + (u^2+c')^2 + (u^2+c')^2 + (u^2+c')^2 =$$

U

w, is we mindy positivale w'> w, es my tehetjuly wi = x,2 we = x2 de = " + d, d; du du At u mindig vi, és wiz hørt pleish Selat eer u mindig di és di hørt e merent lehetjul u = d, sin'y + dicory.  $u = d_2 / 1 + \frac{d_2 - d_1^2}{d_1^2} \sin^2 \varphi = d_2 \Delta(R, \varphi)$  of amplitud  $k^2 = d_1 - d_1^2$   $k^2 = d_1 - d_1^2$  $\frac{du}{d\varphi} = -\frac{d_{L}\kappa sun \varphi cor\varphi}{\Delta(\kappa, \varphi)}$   $VI - \kappa sun' \varphi = \Delta(\kappa, \varphi)$ du = - de k sur year y dep V(u'-d,2)(022-u') = (d2-d, pary corp ds = - (di sin' φ + di cor φ) dik sur φ cor φ dφ + d, di di sur φ cor φ dφ

Δ(k,φ). (di -d, ) ein φ cor φ

Δ(k,φ)(di -d, ) sur φ cor φ  $\frac{dq}{d\varphi} = - dz \cdot \frac{\kappa d_1^2 \sin^2 \varphi}{\Delta(\kappa \varphi)(d_1^2 - d_1^2)} - \frac{\kappa d_1^2 \cos^2 \varphi}{\Delta(\kappa, \varphi)(d_1^2 - d_1^2)} \frac{\kappa d_1^2 \cos^2 \varphi}{\Delta(\kappa, \varphi)(d_1^2 - d_1^2)}$  $\frac{1}{\tau}$   $\frac{1}{\Delta(\kappa, \varphi)}$ = -  $d_2 \frac{1}{\Delta(\kappa, \rho)} \left( d_1^2 \frac{1}{\Delta(\kappa, \rho)} \right) \left( d_1^2 \frac{1}{\Delta(\kappa, \rho)} + d_2^2 \frac{1}{\Delta(\kappa, \rho)} + d_1 \frac{1}{\Delta(\kappa, \rho)} \right) + d_2 \frac{1}{\Delta(\kappa, \rho)} = -d_2 \frac{\Delta(\kappa, \rho)}{\Delta(\kappa, \rho)} + d_1 \frac{1}{\Delta(\kappa, \rho)}$ 

 $Z = - \alpha_2 \int \Delta(k, \varphi) d\varphi + \alpha_1 \int \frac{d\varphi}{\Delta(k, \varphi)}$  $\int \frac{dq}{\Lambda(\kappa,q)} = \overline{f}(\kappa,q) \quad \text{Első fazie}$ SA(κφ) dg = E(u, φ) hæsadis fegis Sellystikus integral ha d, the althor. 1) coch. Z=-de NI-imy dy 2= - des cos plas = de sing u = of asy 2 + u = 2 her 2 = - d2 E(Kp) - 2, F(K, 9) \ u2 = d, 2 ein 2 \$ + d2 cos2 \$.  $\varphi = 0$  alkor z = 0  $u = \pm dz$ q= T allher 1=20=-d2 E'-d, F'  $u = \pm \alpha'$ u = t dz29=220 Y = T u = ±d,  $z = 3z_0$ 4=3# u = t dz 2 = 420 P = 21

a gørbe tehåt ar u = ± d, en u = ± dr eggenerel hørt wle och morey.

A gyo'hneh ket estele nau t'es-Ar abrolut estel leggen Rahkor. Er exelhen a trambolo ben t jegg es egy:

$$\frac{dr}{du} = \frac{u^2 + d_1 d_2}{\frac{d}{R}}$$

$$\frac{d^2z}{du^2} = \frac{d}{du} \left( \frac{u^2 + d_1 d_2}{+ R} \right)$$

$$\sigma = \frac{2u}{R} + (u^2 + d, d_2) \frac{d \stackrel{!}{\neq R}}{du}$$

$$\frac{1}{4\pi} = \frac{2u}{R^2} + \frac{1}{4u} \left( \frac{u^2 + u^2 + u^$$

jeo u

MAGYAR TUDOMETYOS AKADÉMA KONYVIÁRA

$$\frac{d \frac{1}{2R}}{du} = \frac{1}{R^{2}} \frac{dR}{du}$$

$$\frac{dR}{du} = \frac{1}{2} \frac{1}{R} \left\{ (x_{2}^{L} - u^{2})^{2}u - (u^{L} - d_{1}^{L})^{2}u \right\}$$

$$\frac{d \frac{1}{2R}}{du} = \frac{1}{2} \frac{1}{R} \left\{ (x_{2}^{L} - u^{2})^{2}u - (u^{L} - d_{1}^{L})^{2}u \right\}$$

$$\frac{d^{2}u}{du} = + \frac{2u}{R} \pm \frac{u}{R^{2}} \left\{ u^{L} + d_{1}d_{2} \right\} (u^{L} + d_{1}d_{2}) \left\{ u^{L} - d_{2}^{L} - d_{1}^{L} \right\}$$

$$= \pm \frac{u}{R^{2}} \left\{ u^{2}d_{2}^{2} + u^{L}d_{1}^{2} - 2d_{1}^{L}d_{2}^{L} + 2d_{1}d_{2}^{L} + 2d_{1}d_{2}^{L} - d_{1}d_{2}^{L}d_{2}^{L} - d_{1}^{L}d_{2}^{L} \right\}$$

$$= \pm \frac{u}{R^{2}} \left( u^{2}d_{2}^{2} + u^{L}d_{1}^{2} - 2d_{1}^{L}d_{2}^{L} + 2d_{1}d_{2}^{L} - 2d_{1}^{L}d_{2}^{L} - d_{1}^{L}d_{2}^{L} - d_{1}^{L}d_{2}^{L} - d_{1}^{L}d_{2}^{L} \right\}$$

$$= \pm \frac{u}{R^{2}} \left( u^{2}(d_{1}^{2} + d_{2}^{2} + 2d_{1}^{2}d_{2}) - d_{1}^{L}d_{1} \left( d_{1}^{2} + d_{2}^{2} - 2d_{1}^{2}d_{2}^{L} \right) \right)$$

$$= \pm \frac{u}{R^{2}} \left( u^{2}(d_{1}^{2} + d_{2}^{2} + 2d_{1}^{2}d_{2}) - d_{1}^{L}d_{1} \left( d_{1}^{2} + d_{2}^{2} - 2d_{1}^{2}d_{2}^{L} \right) \right)$$

$$= \pm \frac{u}{R^{2}} \left( u^{2}(d_{1}^{2} + d_{2}^{2} + 2d_{1}^{2}d_{2}) - d_{1}^{L}d_{1} \left( d_{1}^{2} + d_{2}^{2} - 2d_{1}^{2}d_{2}^{2} \right) \right)$$

$$= \pm \frac{u}{R^{2}} \left( u^{2}(d_{1}^{2} + d_{2}^{2} + 2d_{1}^{2}d_{2}) - d_{1}^{L}d_{1} \left( d_{1}^{2} + d_{2}^{2} - 2d_{1}^{2}d_{2} \right) \right)$$

$$= \pm \frac{u}{R^{2}} \left( u^{2}(d_{1}^{2} + d_{2}^{2} + 2d_{1}^{2}d_{2}) - d_{1}^{L}d_{1} \left( d_{1}^{2} + d_{2}^{2} - 2d_{1}^{2}d_{2} \right) \right)$$

$$= \pm \frac{u}{R^{2}} \left( u^{2}(d_{1}^{2} + d_{1}^{2} + 2d_{1}^{2}d_{2}) - d_{1}^{L}d_{1} \left( d_{1}^{2} + d_{2}^{2} - 2d_{1}^{2}d_{2} \right) \right)$$

$$= \pm \frac{u}{R^{2}} \left( u^{2}(d_{1}^{2} + d_{1}^{2} + 2d_{1}^{2}d_{2}) - d_{1}^{L}d_{1} \right)$$

$$= \frac{u}{R^{2}} \left( u^{2}(d_{1}^{2} + d_{1}^{2} + 2d_{1}^{2}d_{2}) - d_{1}^{L}d_{1}^{2} - 2d_{1}^{2}d_{2}^{2} \right)$$

$$= \frac{u}{R^{2}} \left( u^{2}(d_{1}^{2} + 2d_{1}^{2} +$$

dw = con 2 w ( 12 - 2, de ( 2, 4 dz )2

by w = position A singlet positiv , 200 portlas namitora electo forges a mig h'-didz= o onnet arten no a luel vagy u val(dizter) u = d, nil no" olk a gorbe åter ags a mant, aldely Undulvide. 4 = 12,20 heijlasjunt u std. vagy uztde nel de z es a harmarch enclus 2 = - dr E(k, y) + d, F(ky) 1 = 1, 2 in 4 + 12 con 4  $u = \pm d_2$ 9=0 z = -di & + di F = 20  $u = \pm d$ p= T  $u = \pm dz$ z = 22aPZT 2 = 2 20  $u = \pm d$ , Y= 37 2=420  $u = \pm d_{\ell}$ 4=211  $\frac{dr}{du} = t_g w = \frac{u^2 - d_1 d_2}{\frac{t}{R}}$ d'i = 1 dio = + h (n'+d,de)(1,-de)

tyw = R d, de du = n cor w (u2+d,de)(d,-de) ha u positiv allhor du mudy positiv. ha u= dz allher ty w positio ha mostan q no s igy awal u 2=0 4= ± d2 tyw= 00 omnet arkan sa jelylon uo ha u positive folyton Joyy ha u negoc or uval thehat mendaddy mig h = +d, nel una lywa 00 Modoide

Demoslott erd"

$$\frac{d^2x}{(1+|\frac{dx}{dx}|^2)^{\frac{2}{2}}} + \frac{dx}{u[1+|\frac{dx}{dx}|^2]^{\frac{2}{2}}} = cz$$

de porter  $\frac{di}{du^2} = \pm cz$   $(1 + \frac{dn}{du})^2 \frac{dn}{du} = \pm cz$ d wan ( 1 x du cu 2 du tyes und  $7\sin(\frac{\pi}{z}-\varphi)$   $-7\cos\varphi=\pm c\int_{uzdu}$ 8= 7-8=4  $-rcor\varphi = \pm \frac{cV}{2\pi}$ en fu du z = V ZV= 7 = 2 strong V=- - trarcorp V=- cent V= nth A+1h=- = 2 2 F トニーラグ

Bees it.

Talaltal

Capillaritai &

$$\frac{2u\frac{dr}{du}}{V_{1}+dr^{2}}=cu^{2}+c'$$

$$\left(\frac{dr}{du}\right)^2 \left(4u^2 - \left(cu^2 + c'\right)^2\right) = cu^2 + c'$$

$$dr = \frac{(cu^2 + c') du}{\sqrt{4u^2 - (cu^2 + c')^2}}$$

$$dr = \frac{\left(u^2 + \frac{c'}{c}\right) dr}{\left(u^2 + \frac{c'}{c}\right)^2}$$

legignes 442 (42+ 2) = (12-4, (12-42)

a hot wier wi gyöher høvethers egyenletnes.

$$w^{2} + (2\frac{c'}{c} - \frac{4}{c^{2}})\omega + (\frac{c'}{c})^{2} = 0$$
  $\omega = \frac{c'}{c} \frac{2}{c^{2}} + \sqrt{\frac{c'}{c^{2}}}$ 

khait.

$$dr = \frac{\left(u^2 \pm V\omega_1 \omega_2\right) du}{Vu^2 - \omega_1 (\omega_2 - u^2)}$$

chifegereshen ar u-k realisaly

x1+ax+6=0 x1+ax+4=(x1-6) X1 = 0 + 1 x - 6 x1=-2-12-6

W, Wz = C' mest. X2+px+q=0 egyenlet let gyöliet x, ès x, -vel pelelue x=- 1 + 1 - 9 en x=- 1 - 12"

> esal realis estelelere ki legens an =di es de =di

with we

hadt realis wy w, ei we nele I plens  $Vu_i = \alpha_i$   $Vu_i = \alpha_i$ d, end2, és pedig por honal Well benis dr = " + exide" (4,2 - 01) W= d, sin 2 + dr con 2 0. de Modul. 11 = dr -d, 2 m2 8 & = Completed R=Modeling u = 02/17 Kin2 & 4 = 92 A(KS) du = Krundord A(K,9) du = - aksin Geord des 1(k,81) V(42-d,2/d22-42) = (42-d2) sundiconds 4 (42 + 42) 12 = 2 1 2 14 42 - d,2 = d, cos 8 + d,2 cords = (d2-d2)co28 d, 2- 42 = (d2 - d2) ein 38 ,4

Avorgaz-d. + A(KA) = -de (K, S)do = d. Salas Zil aju elso faju elly the ever entyrus auglitud. h = movely of lehel = 0 alkin Karl & my TUDOM ETYOS AKADEMIA KÖNYVIÄRA 1 = - 42 /Vi- 2in Bold (dr-di) ary 12 + 2 = d2 at = dream &

I tibbs felislately vary ar to clotte - vary + pelies felelnely mey. A positio ple de ettol os - y un admit! X = 12 min har will  $z = -4 \mathcal{L}(\alpha, \lambda) - 4 \mathcal{L}(\alpha, \lambda)$ tot eyen to no welen ally ile ada meng

Ar Interval 2 (d, F' + d2 E') la \$ =0 my 2=0 és x=: «2 du = m + diaz an R R R ((12- a,2)-11+(4,24) - u + d, 4 + d, u - u 2 a(u2-d1)(d12-u2) -(u2+d,a)(-2u2+d14d'= (a, + d) (x, 12 - 02) que R = V[m²-1, y (#v²-n) METYOS AKADEMIA KÖNYVYÁRA