

eiioaiodaoey aiidia Na, dai aieua e eiioaiodaoey yaeodifia, a -ai aieua eiioaiodaoey aeoiotia NA, dai aieua eiioaiodaoey niaaaiiu (nk = pk), i elaa0 dya eiadaaniuo naitena e ioe-e. Iaitiaei iodiaeou, -oi daniiodaaiua au0a iotiaann yaeyp aunitea iotiaoy e iadaoua iadaoua. Iniaa aieiaea iadaoei ia oi, -oi iaitiaaii n aaiadaoeae iad «yaeodii-aiuea» iotiaaeiaoeae (niaaiiu yaeodii iadaoiaeo ec ciu iotiaaeiinoe a aaeaiop ciu). Ide iaeiotei onofiaeaeny daiadaoda iadaoia iotiaaeia yaeayon odiaiu Oadi, aadiyoinou caiteiaey eioteia ide daiadaoda, ioe-ife to aanteoita ioy, nenaou, eaete au dacioteia iia ie auua. Aey niaaaiiu iotiaaeia odiaiu Oadi iotiaeo i nadaeia caidaaiite ciu. A yaeodifia (e anaai iotiaaeia) caanu aaaa auua. Neaiaaoueui, a yaeodifii iotiaaeia odiaiu Oadi aieai iotiaae caidaaiite ciu, ide-ai dai iaea, -ai aieua eiioaiodaoey aeoiotia. Iaitiaei iodiaeou, -oi iitei daniiodaaiiu caanu iotiaaeny yaeodifii e a aaeaiote ciu aey aui-ifai iotiaaeia. Ia iadaoea iau-if eniuecopony auiueaiiu iotiaaeiee n ne 3). {mospagebreak title=Iniaaiua iadaoia iotiaaeia} A A A A A A A

INIAIUA IADAOIA IOTIAAEIA AUua auue iaea daniiodaai iaeioteia iadaoia iotiaaeia, a oi -ene e naiue yaeodii iotiaaeia. Yoe iadaoia -anoi eniuecopony ide ienaiee ioteia aenoeay e oadaeoaenee iiteo y iiaaeaiinoe iotiaaeiee i iadaaeaiop anou eo naaiyy iadaaeaiay neiinoe a iotiaaeia ide iadyaeaiinoe yaeode-aneia aieuae eiadoeiiinoe auiote (niiadaoiaopuae eiadoeiiinoe aaeaiote yaeodifia), -ai naitiaai yaeodifia. Iaeiaea cia-eoda iotiaaeia iotiaaeia yaioua. Ionpa noaitaeny iyyoiu iadaoia anoi auntei-anotiuo yaioua, ecaioiaaiuo ec yaeodifii ad daniaiy iotiaaeiee. Initeueo n iauuaeai daiadaoia oaae-eaenoy eioteia iotiaaeia eiaaiey adiaa edeoaene-aneie da.

Aey edaiey i-oeia iaeii caenaou $I\% = I\%O(OO / O)3/2, (1.1)$ aaa $I\%O - iiaaeaiinoe iotiaaeiee ide ia-aeuie iotiaaeia iadaoeia; ioe-ea caeep-aadny oieuei a aae-eia iaeoadaey noaitaie. Iiaaeaiinoe iotiaaeiee cadya a i aieueo iadyaeaiinoe yaeode-aneia iey (aieueo cia-aiyoe edeoe-aneie iadyaeaiinoe Aed) iiaaeaiinoe oiouaenoy i ca iotiaaeiee cadya ide A = Aed A (aey edaiey n-oeia, iadela, Aed= 2,5 eA / ni). Iiaaeaiinoe iotiaaeiee cadya nayaia n adoa aaa $I\%O = kO / q - oaitaie iotiaaeiee, eioteie ide eiioaote daiadaoda iadaeaeaii daaa 26 IA; k - iioiyiaa Aieuioua; q - cad aaeiui iadaoia iotiaaeia yaeayon adaiy aeciie I,, Daee-apo iaiiadaoia op daeiaoeep e daeiaoeep -adac eia auiteaiiu ia iiaa adnaea aaeey e iaeioteie adoa iotiaaeiee, iaiiadaoia iadyaeaiinoe iiaeo eadaou aaeiop aaeaiop die eadao daeiaoeey -adac eiaoeie (den. 1.5). Eiaoeaie iacuapony aeoaiee yadaoe-aneie odiaie, danieia edeoaene-aneie daeoeie iotiaaeiee. Daeui anaiaa nouaopoe e iaeiee aadaeoiua odiaie (odiaie ioteiaiey), eioteie daeiaoeey -adac eiaoeie iotiaaeiee a aaa yoaia: nia-aea yaeodii iadaoiaeo ec ciu iotiaaeiinoe ia odiaiu eiaoeie, a ca daeiaoeey e niiadaoia iaiua I,, Iyoiu iaeua adiaia aeciie naitenaai iotiaaeiee, aaa aadaeou danieiaai ia ana iauaiA nee-aa aaeiaea iotiaaeiee cadya a iotiaaeiee iotiaaeia iotiaaeia aaiy oee-aneiee iotiaaeia: aeodoeae e adaeoi iotiaaeiee cadyaia. Adaeoi iacuapony iadaaeaiia iadaiaiea iotiaaeiee cadya iia aaeoaee yaeode-aneia iey. Ca adaeoi daniaiea, ia eioteie eiioaiodaoey iotiaaeiee oiouaenoy a a (~ 2,7) dac. Aeodoeaii op aeieo iaeii iadaeoeou eae A L = a^SD iotiaaeiee. {mospagebreak title=Idiaaeiinoe iotiaaeiee} A A A A A A A$$

IDIAIEIINOE IOTIAAEIA IOTIAAEIA Initeueo a iotiaaeiee eiouaeny aaa oeia iiaaeaiuo iotiaaeiee cadya, oaeuiay iotiaaei Initeueo aey niaaaii iotiaaeiee ia niaaeypuae daaiiia-ai, iaeii caenaou: $I\% = qn (I\%n + I\%p)$. Iodiae, -oi eioteie Initeueo $I\%p$, o adiaiey iaiua, -ai o edaiey, ni, o adiaiey aieua (iadaeoeoeueui ia ode iodyaea), -ai o edaiey. Aiaiee-if iauae aey epaia nioiyey iotiaaeiee n-oeia. Anee aiidia iadela aeoaeoiaaenou, oi n iaeii caiaieou ia i. Oaeuiay iotiaae (1.3) e (1.4) iotiaae niaaou aaeiue iadaoe-aneiee auia: ide daaiie eiioaiodaoe iotiaaeiee yaeodifii iotiaaeiee aaaa iotiaaeiinoe iotiaaeiee, iadela yaeodifii. Oae eae ide daiadaoda aanteoita ioy a iotiaaeiee iotiaaeiee naitaie nee-aa yaeodii n aiidiuo odiaie (aiidie ciu) iadaoiaeo a ciu iotiaaeiinoe (ni. den.1.3), -oi niiadaoia op aicuapony n a ecaoi-iua aaeaioua yaeodii, iadyoi iacuapou daiadaoote aeoeaene taed. Yoa daiadaoda iadaaeayon oei iotiaae yaeodifia iadaoia iadaoe-aneiee iotiaaeiee. Yoi niiadaoia op $qn = const$ a oiotea (1.3). Neaiaaoueui, oiaaou ecaiaiea iotiaaeiinoe dacet aicuapou ca n-ao eioteiaiee daiadaoia dacet aicuapou. Caaou daiadaoda noaitaenoy oae a iotiaaeiee aey iadaoia iotiaaeiaa ia iotiaaeiee, oi iotiaaeiinoe iotiaaeiee dacet aicuapou. Oaiadaoda ted, ia-eia n eioteie iotiaaeiee aicuapou yaeayon oedeia caidaaiite ciu. xai oeda caidaaiia ciu, dai aieua ted. Oae, anee aey edaiey ted $\approx 330 UN$, oi aey aad ted. Aanteoita aieueieoi iotiaaeiee oioteia yaeodifiee e eniuecopony a yoi aeiaiaa daiadaod (iau-if aaeai eioteie aai iotiaaeiinoe oiouaenoy n otion daiadaoda). {mospagebreak title=Nioeoea e iiaaiua naitena p-n iadaoia} A A

NOEOEOEA E INIAIUA NAITENA d-n IADAOIA Iadaea anaai, daniiodei aaa iadaoa iotiaaeiee n yaeodifie e ad iaiiaaeaiua iotiaaeiee eioua. Ia den. 1.6, a adde iaiia-aiu caeaeie A «iepnA», a iotiaaeiee eioua eioua - caeaeie A «ieionA», a Aiaiee-if iaiia-aiyey cadyaia a aui-ifii iotiaaeiee a yaeodifii iotiaaeiee yaeodifii iaiia-aiu caeaeie A «ieionA», a iotiaaeiee a 2 dac -aua, -ai a yaeodifii. Oiaaou iadaoiaaei, -oi daniiodaaiua iaie aaa iadaoa yaepony iotiaaeiee aaeiaie ede iaiiaie, - ec iaeanoe d a iaeanou n. Anoda-aynu ia adaeoa d e i iaeanoe, adde e yaeodii daeiaoeop. Neaiaaoueui, Ni noiitii iaeanoe iaiaapony iotiaaeiee cadya aiidia, a ni noiitii iaeanoe d-iotiaaeiee cadya aeoiotia. Iaeaiou iaeanou, eia y aaeo dacet niaaiop eiioaiodaoep iiaaeaiuo iotiaaeiee cadya. Eiaa yoa iaeanou iacuapou caidii neiay iotiaaeia. Initeueo a daniaoeaaii iaie nee-aa $NA = 2NA$ (iaieiaoe-iue iadaoia), iotiaaeiinoe iaeanoe danieiaiey ca niaaai-aeaaony a neaiaaeoiaaii (aunteioii) neia. A daeuiuo d-i iadaoia eo eiioaiodaoe aiidia e aeoiotia ioe-a neaiaaeoiaaiiee -ane. Oedeia iaaiiaaii neiy (i-iaeanoe) a daiaaaii nioiyiee IO (ni. den. 1.6, a) yaeayon aaeiui iadaoia iotiaaeiee ia ciu yadaoe-aneiee aadaoia d-i iadaoia, ecaiaaiie ia den. 1.7 (aaa $I\%F - odiaiu Oadi$). Iotiaaeiee aadny aey anaai iauua iotiaaeiee e danieiaa a caidaaiite ciu. Initeueo a iotiaaeiee i-oeia odiaiu Oadi niaua aad iotiaaeiee dacet aicuapou ciu yaeodifie yadaoe. Neaiaaoueui, a iaaiiaaii neia aadaoia yadaoe-aneiee ciu enedeaeayon. Caiae, - aduaad, iadiyonaao iotiaaeiee yaeodifia ec iaeanoe d-oeia a iaeanou i-oeia e auiote a iadaoia iadaaeiee. Aiea nioiaa eiiaieeodoo iotiaaeiee iotiaaeiee iotiaaeiee cadya, a dacetiaoe -aai oie -adac d-i iadaoia ia iotiaaeiee. Aieeoeooy den. 1.7, aduaada $I\%O$ oiaai auiadao a aaeieo iadyaeai-ley - aieua. Aiaieui neuiia aeeyiea ia aae-eieo $I\%O$ iacuapou oedeA - 0,7 A. Oedeia d-i iadaoia ai iiaai iadaaeayon aae-eiee $I\%O$. Yoi otiaa aeai ec iauae otiaoeu aey IO ide Na $\approx e^0 Na$: nioA-aaonaaaii. Aae-eiea IO iau-if nioaayeo aanyoua aiee eee aaeieou iedea-iaoda. Ec (1.5) neaao, -oi aey nicaiey o daaiuo eiioaiodaoey iotiaaeiee IO aaaa aieua o d-i iadaoia n aieuei $I\%O$ e, neaiaaoueui, n aieuae $I\%p$. Oaei iadaoia, o e

