????????????? ????????? ??? ????? ???????

??? ????? ??????? ??? ????????????? ?????? ?? ?????????? ?????????? ???????? ??????? ?? ??? ????????? ??? ?.? ?1/192329/?3 (??? 3185/16-12-2013 ???? ????????????? ?? ??? ??92983/?1/11-06-2015 (???1329 ?. ?/02-07-2015) ??? ?? ?? ????? 74 ???. 3 ??? ?4485/2017.

?????????? ?????????????: ?????????? ?????????????, ?.?.?. ? ???????? ???? ????, ?.?.???.?.?., ??? ??????? ? ??? ?????????? (????????????? ??? ?? ?.?.?.?.?.?.) ????? ??? ??? ??????? ??????? ???????? ?????? ??????????? ??? ??????? ?????? ??????? ??????????? ????????? ???????? ??? ??????????? ??? ????? ??????????, ?? ??????? 12% ??? ??? ??????? ????????? (??????? ?? ?? ????? 1 ??? ?? ?1/192329/?3).

? ???????? ??? ????? ??????? ??????? ?? ??????? ????????? ?? ???? ????????. ? ????????? ??? ????????? ????????????? ??? ?? ????????? ??? ????????. **??? ?? ????????? ???? 2019-20 ?? ???????? ???????? ?????? ??? 1 ??? 15 ????????? 2019 ??? ?? ????????? ?? ?????? ??? ??? 1 ??? ??? 20 ????????? 2019**. ??? ??????????? ??????????? ??????? ?? ??? ???????? ????????????? ?? ?? ????????? ??? ???????? ???????.

?? ???? ????????? ??? ? ????????? ????????? ??? ??????????? ???? ????????, ??????????? ??? ??? ???????? ??????????? ??????? ??? ???????? ??????? ?? ???? ??? ????????? ????????? ??? ????????, ??? ?? ????????????? ??? ??????? ????????. ??????????? ??????????? ????? ????????? ??? ?? ????????? ??? ???????? ?. ?. ????????? (kandida@physics.uoc.gr [1], 2810-394308).

??? ????????????? ????????

? ?.?. ??? ???????? ??????? ????????? ?? ????????? ???? ??? ????????? ??? ????????? ???? ???????? ????????? ??? ?? ????????? ???? 2011-2012 ??? ??? ????????, ?? ???????? ???? ??????? ????????? ??? ???????? ???? ????????: (?) ???????? ??? ?????????????, (?) ????????? ??? ?????????, (?) ?????? ????????? I. ? ??? ??? ????????? ??? ???????? ???? ??????????? ?? ????:

(?) ???????? ??? ?????????????

1. M??? ???????? ??? ?????????, ????????? ???????? ??? ?????????, 2?? ????? ??? N?????? ?? ??? ????????, ????????? ??? ????????? ????.
2. 2?? ????? ??? N?????? ?? ??? ??? ????? ?????????.
3. ????, ????????, ???????? ????????, ????????? ??? ?????????.
4. 3?? ????? ??? N??????, ????, ????????.
5. ????????? ??????? ??????? ???? ??????? ?????, ???? ???????, ?????????,

???????? ????????, ???? ?????????.
6. ????????????? ????????? ????????.
7. K????? ??????? ???????, ???? ????????, ?????????, ???????? ????????.
8. T??????????.
9. ????? ?????????? ?????.
10. M??????? ???????.
11. K??????? ??????, ?????? ?? ?????, ??????? ??????, ????????? ???????.
12. ??????????, ??????? ????????, ??????? ?????, 1?? ????? ?????????????.
13. K??????? ?????? ??????, ???????? ???????, ????????, 2?? ????? ?????????????.

B??????????:

1. R.A. Serway, J.W. Jewett "?????? ??? ?????????? ??? ??????????", ????? I [2], E??????? ????????????, (2012).
2. D. Halliday, R. Resnick, J. Walker, "??????", ????? ? [3], E??????? ????????, (2012).
3. ?????? ??????? ? ??? ? ??????? (?????????? ??? ??????? ????????).

(?) ?????????? ??? ??????????

1. H???????? ?????, ????? Coulomb, ????? Gauss.
2. H???????? ????????.
3. ????????, ??????????, ?????, ?????????.
4. K???????? ???????? ????????, ????????? ?????.
5. ????? ?????????? ??????, ????? Biot- Savart, ????? Ampere.
6. N???? Faraday, ???????, ?????.
7. K???????? ????????????? ????????.
8. E???????? Maxwell, ???????????????? ??????.
9. H ???? ??? ?????, ????? ?????????? O??????.
10. ?????????? O?????, ????????, ?????.
11. ??????? ??? ?????.
12. ????????? ??? ?????? ??? ?????.

B??????????:

1. R.A. Serway, J.W. Jewett "?????? ??? ?????????? ??? ??????????", ????? II [4], E??????? ????????????, (2012).
2. D. Halliday, R. Resnick, J. Walker, "??????", ????? ? [5], E??????? ????????, (2012).
3. ?????? ??????? ? ??? ? ??????? (?????????? ??? ??????? ????????).

(?) ?????? ?????????? ?

1. ?????????????: ???????, ?????????? ??? ???????? ??????????, ????????? ??????????, ?????????? ?????????? ??? ???????μ??, ???????μ??????? ?????????? ??? ?? ?????????? ????, ????μ??????? ?????????.
2. ‘???? ??? ????????: ???μ?? μ???????? ??? ????, ?????? ????? ??? ????????? ?????, ?????? ????, ????????, ??????μ???? ???????.

3. ????????? ??? ?????????: ? ????????? ?? ?????????, ? ????????? ?? ???μ?? μ????????, ????????? ????μ???? ??????? ??? ????????? ????μ??, ????????? ???????μ??????? ??????????, ??????? ?????????? ??????????, ?????????? ??????μ???? ??????????. ???????? ??????????, ?????μ? μ???? ??μ??, ???μ? ???????? ??????????, ????????? μ??????? ??? ?????????????, ???μ?????????, ?????????, μ?????? ??? Newton, ????? ??? Taylor.
4. ??????????: ??????? ????????μ???, ??????? ??????????, ?????????? μ? ?????????????, ????μ??? ????????? μ? ????? ???????μ???? ??????μ????, ??????μ??? Riemann ??? ????μ??? ????????μ???, ?????μ? μ???? ??μ?? ??? ??μ??????? ?????μ? ??????????, ????????μ?? ????μ???? ????????μ???? μ? ?????????????, ????μ????? ??????????, ?????? ????? ??????????, ?????????? ???? ??????????, μ????? ????μ???, ???????μ??????? ?????????????????, ????? ????????μ????, ?????μ??? ????????????? ????????, ?????????? Monte Carlo, ???????μ??? ????????μ???.
5. ????μ???? ????????μ????: ????????μ?? ????? μ? ????μ????? ??? ?????????? ???? ??? ??? ?????, μ?????? ????? μ? ????? ?????????? ??????, μ??? ??μ????? ??? ???????, ???????? ??????? ??? ???????????, ????μ??? ???????, ????? ??? ?????? μ????.
6. ?????????? ??????????: ???????μ??, ????????? ??????????, ????????? ?????????? ???????μ??????? ??????????? , ????????μ???, ??????????? ??????????.
7. ??????? ??????: ???? ??????????, ?????????????, ????μ???? ??????????, μ?????? Picard, ??????? ??????, ?????? μ? μ? ?????????? ?????, ????????μ???? ??????, ??????? ????????, ??? ???????? ????????, ????μ???????, ?????? Taylor ??? MacLaurin, ????μ???? ????μ???????, ?????? Fourier, ?????? Fourier ?μ?????? ??? ????μ??????.

B??????????:

1. R.L. Finney, M.D. Weir, F.R. Giordano, "A??????????? ????????", T???? ? [6] ??? T???? II [7], Addison-Wesley Press, M???????? ?. ??????????????, ??????????????? E??????? K?????, (2001).
2. M. Spivak, "?????????? ??? O???????????? ????????" [8], Publish-or-Perish Press, M????????: A. ????????????, ??????????????? E??????? K?????, (2010).
3. ?????? ??????????? ? ??? ? ??????? (??????????? ??? ??????? ????????).

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[5] https://service.eudoxus.gr/search/#a/id:33074361/0
[6] https://service.eudoxus.gr/search/#a/id:25/0
[7] https://service.eudoxus.gr/search/#a/id:184/0
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