

???????????? ? ?????? ??????????????: ????????? ??????? ??????????????

[???????????? ? ???????](#) [1]

?..?. ????????????? ?????? ?????????: ????????? ??????? ?????????????  
????? ??????????????: ? ?????????????????? ????????????? ?????????????  
????????????????? ? ??????????????  
?????????????????????  
????????? ??????? ??????????: ??????? ???????-???????????????????? ?????  
????????? ??????????????????: 01.01.09 - ????????????? ????????????? ?  
???????????????????? ??????????????  
????????? ?????????? ??????????????????:  
????? ????????????????????????? ?????????: ? 002.073.05  
????????????????? ????? ? ?????? ?????????: .18 ??? 2017 ?., 13:00  
?????? ?????????????? ??????? ??????????????????: 119333, ???????, ??????????, ?.40, ???????????-  
????  
?????: [www.frccsc.ru](http://www.frccsc.ru) [2]

**E-mail:**

???????????? ????????????? ?????????????  
?????????????????: "[? ????????????????????? ?????????????30 ???????](#)  
[???????????????? ????????????????? ?](#) 2017 ?.  
[????????????????](#)  
[???????????????????????????? \[3\]](#)"  
????????? ? ?????????? ????????????? ? 3 ?? 16 ????????? 16 ?????????  
????????????????? ? ?????????: 2017 ?.  
????????????? ? 5 ?? 16 ?????? 16 ??????  
2017 ?.: ??????? 2017 ?.  
???????????????????? ??????  
???????????????????? ?????????????  
?.?.-?.?., ??????????????  
????????????? ?.( ?????????????  
????????????? ??. ?  
???????????????????? ??????  
????????????????? ?????????????? ?  
?????? ? ??????????) ?????????????  
????????????????? ??????????????  
????????? ??????????-

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

????????????????? ????,  
????????????? ??????? ???????  
????????????? ?????????  
?????????????????  
????????????????????  
????????????????? ?????????? ?.

????? ?????????? 01 ???????  
?????????????????: [????????????? ?.?.](#) 2017 ?.  
[?.?.????????? \[4\]](#)

?????????????: [????????????? ??????????????"](#) 17 ???????  
[????????????????????? ???????????](#) 2017 ?.  
[????????????? ????????????????? ?](#)  
[??????????????](#)  
[?????????????????????" ???????????](#)  
[????????? ?????????????? \[5\]](#)

????????????? ?? ??????  
????????????? ???????:

?????????? ?? ?????????????? [????????????? ?????????? ???????](#) 21 ???????  
?????????????: [????????????????? ????? ???????](#) 2017 ?.  
[????????????? ?????????????? \[6\]](#)

[????????????????? ?????????? ???????](#) 21 ???????  
[????????-????????????????????? ??????](#) 2017 ?.  
[????????? ?????????? ??????????????](#)  
[7]

[????????????????? ?????????? ???????](#) 21 ???????  
[????????-????????????????????? ??????](#) 2017 ?.  
[????????? ??????????](#)  
[????????????????? \[8\]](#)

??????? ??????????????? 21 ???????  
?????????????: [????????????? ??????????](#) 2017 ?.  
[????????????????? ????? ??????????](#)  
[????????????????? ??????????????. \[9\]](#)

[?????? ??????????????????](#) 21 ???????  
[????????????? ?????????? ?????????-](#) 2017 ?.  
[????????????????????? ??????](#)  
[????????????? ?????????????](#)  
[?????????????????. \[10\]](#)

[?????? ??????????????????](#) 21 ???????  
[????????????? ?????????? ?????????-](#) 2017 ?.  
[????????????????????? ??????](#)  
[????????????? ??????????](#)  
[????????????????????? \[11\]](#)

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

????????? ? ?????????? ?????????? ??????????????: 03 ???  
?????????????: ?????????? ?????????????????? 2017 ?.  
????????????? ??????????????  
???????????? ????? ??. ??.?????????

[12]

????? ????????? ?????????????? ?????? ????????? ?????????????? 03 ???  
????????????? ?????????????????????? 2017 ?.  
????????????? ??????????????  
???????????? ????? ??.  
?.?.?????????. [13]

???????? ? ? ?????????????? ? ?????? ? 2358082. [14] 21 ??????  
????????????????? ??????????????: 2017 ?.

??? ????????????? ? 21 ??????  
????????????????? ?????????????????? 2017 ?.  
?.? 43753 [15]

??? ????????????? ? ??? "?????????21 ??????  
"?????????????" [16] 2017 ?.

????????? ? ?????????????? ?????????????? 18 ???  
????????????? ??????????: 2017 ?.

002.073.05 ?? ?????  
?????????????????  
????????????????????????????? ??????  
"????????????? ? ?????????????"  
????????????? ?????????? ????? ?  
????????????????? ?? ??????????  
????????? ?????????? ?????????? ?????

[17]

[???????????? ? ???????](#) [1]

---

?????????:[https://www.frccsc.ru/diss-council/00207305/diss/list/cherepnev\\_ma](https://www.frccsc.ru/diss-council/00207305/diss/list/cherepnev_ma)

???????

[1] <https://www.frccsc.ru/diss-council/00207305/diss/list> [2] <http://www.frccsc.ru> [3] [https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev\\_main.pdf?21](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_main.pdf?21)  
[4] [https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev\\_OtzNauchRuk.pdf?838](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_OtzNauchRuk.pdf?838) [5] [https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev\\_AvtoReferat.pdf?57](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_AvtoReferat.pdf?57) [6] [https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev\\_SvedOffOpp-FrolovAB.pdf?733](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_SvedOffOpp-FrolovAB.pdf?733) [7] [https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev\\_SvedOffOpp-FomichevVM.pdf?628](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_SvedOffOpp-FomichevVM.pdf?628) [8] [https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev\\_SvedOffOpp-FomichevVM.pdf?628](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_SvedOffOpp-FomichevVM.pdf?628)

[0-cherepnev/010-Cherepnev\\_SvedOffOpp-UstinovAV.pdf?884](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_SvedOffOpp-UstinovAV.pdf?884) [9] [https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev\\_OtzOffOpp-FrolovAB.pdf?14](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_OtzOffOpp-FrolovAB.pdf?14) [10] [https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev\\_OtzOffOpp-FomichevVM.pdf?120](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_OtzOffOpp-FomichevVM.pdf?120) [11] [https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev\\_OtzOffOpp-UstinovAV.pdf?495](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_OtzOffOpp-UstinovAV.pdf?495) [12] [https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev\\_SvedVedOrg-IVM.pdf?749](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_SvedVedOrg-IVM.pdf?749) [13] [https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev\\_OtzVedOrg-IVM.pdf?969](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_OtzVedOrg-IVM.pdf?969) [14] [https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev\\_patent-2358082.pdf?783](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_patent-2358082.pdf?783) [15] [https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev\\_AktVnedr\\_VCh.pdf?303](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_AktVnedr_VCh.pdf?303) [16] [https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev\\_AktVnedr\\_Avtomatika.pdf?168](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_AktVnedr_Avtomatika.pdf?168) [17] [https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev\\_ZacluchPrisuzden.pdf?204](https://www.frccsc.ru/sites/default/files/docs/ds/002-073-05/diss/10-cherepnev/010-Cherepnev_ZacluchPrisuzden.pdf?204)