Fənnin adı: Riyazi fizika məsələlərində optimal idarəetmə

- 1. The statement of optimal control problem for systems, described for ordinary difeferential equations.
- 2. Maximum principle for ordinary difeferential equations.
- 3. About sufficiency of maximum principle.
- 4. The statement of optimal control problem for heat equation
- 5. The statement of optimal control problem for vibration process
- Optimal control problem in the process described by Partial Goursat-Darboux system
- 7. Maximum principle
- 8. The expression of maximum principle
- 9. Theorem (Maximum principle)
- 10. Adjoint problem
- 11. The estimation if solution, lemma.
- 12. Impusive variaton and estimation of increatment of solution
- 13. Proof of maximum principle
- 14. Sufficiency of the maximum principle
- 15. The existence of optimal control with quadratic criteria in the linear Goursat-Darboux system
- 16. Optimal control problem for heat equation
- 17. The solution of boundary value problem
- 18. Existene of optimal control
- 19. Adjoint problem for heat equation in optimal control problem
- 20. The necessary and sufficient condition for optimality
- 21. Theorem necessary condition and sufficient condition
- 22. Optimal control for Vibration Process

- 23. Optimal control for bar equation
- 24. The optimal control problem described by the system of Elliptic equation
- 25. The minimization of coercive forms
- 26. Theorem (Existence)
- 27. Theorem (Uniqueness)
- 28. The variational inequalities
- 29. Necessity and sufficienty
- 30. The optimal control problem for Elliptic equation
- 31. The optimal control problem described by Dirichlet problem for Elliptic equation
- 32. The optimal control problem described by Neumann problem for Elliptic equation