



# **New portable seawater desalination solar plant based on membrane distillation technology**

*Ph.D Hakobyan Arsen*

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This book is devoted to the investigation of heliothermal desalination plants and designing of new types of membrane distillation solar desalination plants. Sea water desalination processes have been operated on constructed pilot plants in laboratory and field conditions. Designed solar devices are small sized, simple, robust units that do not have moving parts and can operate independently. In hot, arid, remote, seaside countries membrane distillation solar desalination plants can be used in private houses, clinics and in factories that need fresh and pure water. These light, portable, mobile desalination plants can operate in extremal conditions: on ships, in the army, hospitals, remote areas, these membrane distillation solar modules can be used to satisfy the demand in fresh water in the following fields: 1.getting high quality drinking water 2.getting high purity water for medical purposes 3.getting desalinated water for irrigation and industry. Membrane distillation solar desalination plants are irreplaceable, completely versatile desalination means due to their constructional simplicity, low maintenance and high efficiency. INTRODUCTION SEA WATER DESALINATION METHODS SOLAR ENERGY SOLAR DESALINATION PLANTS. DESALINATION OF SEA WATER MEMBRANE DISTILLATION a.Theoretical and experimental research b.Membrane distillation (MD) modules for sea water desalination DESIGN AND CONSTRUCTION OF NEW TYPE MEMBRANE DISTILLATION SOLAR DESALINATION PLANTS a.basis and background of work b.box type solar desalination plant. test results c.membrane distillation solar desalination plant. test results d.membrane distillation and box type solar hybrid desalination plant. test results e.membrane distillation multistage solar desalination plant. test results CONCLUSIONS APPENDIX REFERENCES

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