



Tensors, Relativity, and Cosmology, Second Edition

Mirjana Dalarsson MSc - Engineering Physics 1984

Licentiate - Engineering Physics 1989, Nils Dalarsson MSc - Engineering Physics 1982

Licentiate (Swedish degree between MSc and PhD) - Theoretical Physics 1990

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The book includes a section on general relativity that gives the case for a curved space-time, presents the mathematical background (tensor calculus, Riemannian geometry), discusses the Einstein equation and its solutions (including black holes and Penrose processes), and considers the energy-momentum tensor for various solutions. In addition, a section on relativistic astrophysics discusses stellar contraction and collapse, neutron stars and their equations of state, black holes, and accretion onto collapsed objects, with a final section on cosmology discussing cosmological models, observational tests, and scenarios for the early universe.

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