



Black Hole Gravitohydromagnetics (Astrophysics and Space Science Library)

By Brian Punsly

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Black hole gravitohydromagnetics (GHM) is developed from the rudiments to the frontiers of research in this book. This second edition of the book is updated throughout and contains a completely new chapter discussing the state-of-the-art.

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Bibliography

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Editorial Review

Review

From reviews of 1st edition:

"Black Hole Gravitohydromagnetics is a serious and important book that should be studied and used by every researcher of black hole plasma astrophysics." (Marek Abramovicz: General Relativity and Gravitation, Vol. 35, No. 6, June 2003)

From the Back Cover

Black hole gravitohydromagnetics (GHM) is developed from the rudiments to the frontiers of research in this book. GHM describes plasma interactions that combine the effects of gravity and a strong magnetic field, in the vicinity (ergosphere) of a rapidly rotating black hole. This topic was created in response to the astrophysical quest to understand the central engines of radio loud extragalactic radio sources. The theory describes a "torsional tug of war" between rotating ergospheric plasma and the distant asymptotic plasma that extracts the rotational inertia of the black hole. The recoil from the struggle between electromagnetic and gravitational forces near the event horizon is manifested as a powerful pair of magnetized particle beams (jets) that are ejected at nearly the speed of light. These bipolar jets feed large-scale magnetized plasmoids on scales as large as millions of light years (the radio lobes of extragalactic radio sources). This interaction can initiate jets that transport energy fluxes exceeding 10^{47} ergs/s.

This second edition of the book is updated throughout and contains a completely new chapter discussing state of the art and results of numerical simulations of ergospheric disk jets occurring in magnetohydrodynamic accretion flows.

Users Review

From reader reviews:

Ruth Powers:

This book untitled Black Hole Gravitohydromagnetics (Astrophysics and Space Science Library) to be one of several books that will best seller in this year, this is because when you read this guide you can get a lot of benefit on it. You will easily to buy that book in the book shop or you can order it through online. The publisher of the book sells the e-book too. It makes you more readily to read this book, since you can read this book in your Touch screen phone. So there is no reason to you to past this e-book from your list.

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Tony Sanford:

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