

# Ellipsoidal Figures Of Equilibrium

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this book treats the classical problem of gravitational physics within einstein s theory of general relativity it presents basic principles and equations needed to describe rotating fluid bodies as well as black holes in equilibrium it then goes on to deal with a number of analytically tractable limiting cases placing particular emphasis on the rigidly rotating disc of dust the book concludes by considering the general case using powerful numerical methods that are applied to various models including the classical example of equilibrium figures of constant density researchers in general relativity mathematical physics and astrophysics will find this a valuable reference book on the topic a related website containing codes for calculating various figures of equilibrium is available at [cambridge.org/9781107407350](http://cambridge.org/9781107407350)

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