and contain matter whose pressure is creater than minus onethird the density. An ovent horizon exists when there are events that a given observer will never see. The steadystate model (K0 Rce ) is an example of one with an event horizon. forizons will be further discussed in Chapter 4 which also deals with the occurrence of singularities of spacetime and their connection with topology.

Each chapter is self-contained and has its own references. The following notation is used throughout; space-time is taken to be a Riemannian manifold with metric tensor ge; This is taken to have signature -2 except in Chapter 2 where, in order to facilitate comparison with previous work, the signature is 2. Covariant aifferentiation is indicated by a semi-colon. Units are employed in wicho, the speed of 11cht,and K, the seavitational constant, equal one.
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