The general theory of relativity : a mathematical exposition

Das, Anadijiban

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Abstrak

The general theory of relativity : a mathematical exposition will serve readers as a modern mathematical introduction to the general theory of relativity. Throughout the book, examples, worked-out problems, and exercises (with hints and solutions) are furnished. Topics in this book include, but are not limited to tensor analysis, the special theory of relativity, the general theory of relativity and Einstein's field equations, spherically symmetric solutions and experimental confirmations, static and stationary space-time domains, black holes, cosmological models, algebraic classifications and the Newman Penrose equations, and the coupled Einstein-Maxwell-Klein-Gordon equations appendices covering mathematical supplements and special topics.