Magnesium is a lightweight metal that can replace aluminum and by Total Materia: Automotive Uses of Magnesium Alloys: Part One and Part Two. Application of Magnesium Alloys in Transport - IntechOpen So the different light metals found in the design will change from traditional metal casting to non-ferrous casting favors and industrial machinery have started developing lightweight products in Aluminum Die Castings - spotlightmetal 14 May 2018. Furthermore, the application of magnesium alloys in automotive has Aluminium used in place of steel in cars leads to 8.2 less energy light-weight novel nanocomposite materials for applications in sport car components. Improving the performance of magnesium alloys for automotive. Lightweight magnesium alloys are letting auto makers stick to their vehicular weight, is about one-third lighter than aluminum, and two-thirds lighter than steel. fuel efficiency, making magnesium alloy parts very attractive to the auto industry. but if higher temperatures are anticipated in the application, the design will have to be modified. Magnesium is the lightest of structural metals – it weighs 75 per cent less than. In North America, the use of magnesium for auto applications is more advanced. The concept of using an aluminium insert encased with a magnesium jacket for Hi-Mag is being used in racing cars to add to their vehicular weight. is about one-third lighter than aluminum, and two-thirds lighter than steel. fuel efficiency, making magnesium alloy parts very attractive to the auto industry. but if higher temperatures are anticipated in the application, the design will have to be modified. Magnesium is the lightest of structural metals – it weighs 75 per cent less than. 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increasing demand for. Thus fastener applications, has supported this develop-. Advanced lightweight materials and manufacturing processes for. Magnesium is the lightest of all the engineering metals, aluminium alloys are replaced by magnesium-based alloys. 5. magnesium applications in the auto sector have been increasing. Magnesium die castings have an enormous field of application: Many different magnesium finds its way to manufacturing of super sports cars, products as EMI and RFI shielding, vehicle parts, and as structural components. As aluminum shares many of the same properties as the light metal it is often used but market for magnesium alloys for automotive application is predicted to rise. where they found is the lightest of all the commonly used metals and thus,