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this article discusses some of the basic principles in dl methods and highlights major trends among the recent advances in dl applications for materials science there are many am applications including lightweight products for the aerospace automotive medical architectural modeling and energy industries these include applications where low volume production high design complexity and the ability to change designs frequently are needed in this review we discuss current advances of am in medical applications for the generation of pharmaceuticals medical implants and medical devices oral and transdermal drugs can be fabricated by a variety of am technologies from cars smartphones and airplanes to medical equipment consumer applications and industrial machines the impact of ai is notoriously changing the world we live in in this context deep learning dl is one of the techniques that has taken the lead for cognitive processes pattern recognition object detection and machine learning all ai advances and applications is ai at an impasse the growth of ai to date has been fueled by massive amounts of data and exponential gains in processing efficiency iron oxide nanoparticles have dominated applications such as drug delivery hyperthermia bioimaging cell labelling and gene delivery because of their excellent properties such as chemical stability non toxicity biocompatibility high saturation magnetisation and high magnetic susceptibility in this review we introduce the fundamental principles of ml and ffs in the context of machine learning force fields mlff we also discuss the advantages and applications of mlff compared to traditional ffs as well as the mlff toolkits widely employed in numerous applications in this review we introduce the synthesis principles modification methods and new materials designed based on dendrimers discuss the importance of cytotoxicity of dendrimers for applications and elaborate on their applications in the field of molecular assembly and cancer diagnosis and treatment this review is aimed to provide a comprehensive overview of multimaterial coaxial am including the technologies nozzle designs materials and applications the advances in coaxial am and the benefits of this novel technology in various fields are highlighted a growing body of research shows that sequencing of single cell rna scrna seq is emerging to be an effective way for dissecting human tumor tissue at single cell resolution presenting one prominent way for explaining carcinoma biology the applications of edna are transpiring in different domains for example trophic and community ecology functional diversity ecosystem dynamics and prey predator interactions biomonitoring conservation biology single and multi species detection abundance estimates invasion biology early species detection passive surveillance and the results of this review revealed four directions of required advancement in robotics development of intelligent companions improved implementation of ai based solutions robot oriented our review provides an update on recent advances in the field of aptamers with particular focus on the methods of generating novel aptamers and the applications of aptamers in biosensing biotechnology and biomedicine in this review we focus on the latest advances in microfluidic technology for drug analysis which mainly include offline rapid analysis online real time monitoring in vivo model organism based evaluation and organs on chips evaluation to systematize rehabilitation assessment which is the foundation for rehabilitation therapy we summarize the assessment methods commonly used in research and clinical applications

including the various types of stroke rehabilitation scales and their applicability and related biomedical detection technologies including surface the 4ir and space have a positive mutually reinforcing relationship scientific advancements and the convergence of technologies are leading to advances in space exploration while advances in from advanced means for the characterization and toxicological assessment of new materials through classical applications in nanotechnology and tissue engineering toward novel specific uses of these products the volume wishes to give readers a view of the wide range of disciplines and methodologies that have been exploited to develop advances in mechanical engineering 2019 vol 11 2 1 27 additive manufacturing challenges trends and applications the author s 2019 doi 10 1177 1687814018822880 journals sagepub com home ade osama abdulhameed1 abdulrahman al ahmaril wadea ameenland syed hammad mian1 abstract advances in multimedia publishes research on the technologies associated with multimedia systems including computer media integration for digital information processing storage transmission and representation tissue engineering is at the forefront of current research on tissue regeneration and demonstrates great potential for musculoskeletal tissue repair among the numerous grafts available adhesive hydrogels have demonstrated potential for tissue applications

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