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Purdue University 1Updated: December 4, 2019. Contents Preface  
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Mechanical waves travel through a medium such as a string, water, or air. Perhaps the most significant prediction of Maxwell's equations is the existence of combined electric and magnetic (or electromagnetic) fields that propagate through space as electromagnetic waves. Because Maxwell's equations hold in free space, the predicted electromagnetic waves, unlike mechanical waves, do not require a medium for their propagation.

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Electromagnetic Fields, Forces, and Motion Magnetohydrodynamic generator from the 2003 final exam (PDF). The C-core magnetic circuit is excited by a field coil that carries a current and has a rectangular channel with moving conductive fluid that passes through the magnetic circuit gap. (Image by Prof. Markus Zahn.)

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The coupling between electric and magnetic fields in the time-varying case leads to wave phenomena. This is most easily analyzed for fields which vary sinusoidally, and may thereby be expressed as phasors. 1 Phasors, indicated in this book by the tilde (“ $\widetilde{\sim\sim}$ ”), are complex-valued quantities representing the magnitude and phase of the associated sinusoidal waveform.

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