0/ //			
%#	+		
\$ , ! % \$ - +- \$	%#  \$ ' #	Ryerson Uni0ersity Colgate Uni0ersity Physics Dept.\$6innesota 7raduate School\$6innesota Physics Dept.\$6innesota Physics Dept.\$6innesota Carleton College	&#"+ &#": \$&#"( &##+ & &##%;&##+ &##( &##( &##&</td></tr><tr><td></td><td>0</td><td></td><td></td></tr><tr><td>> ( s</td><td>1 & 2 C1R<"#: A / =undamental 9uests in beral Arts Core curriculum\$for n Concepts in particle physics\$cosmoscienti@c methodA</td><td>on;science ma?ors. logy\$fusion</td><td>Colgate Uni0ersity " semester</td></tr><tr><td>></td><td>PCS"#B / The 3atural ConteCt PAlgebra based course for @rst year The chanics Statics Senergy transfer A</td><td>architecture students\$</td><td>Ryerson Uni0ersity ! semesters</td></tr><tr><td>></td><td>PCS"&# / Physics I Algebra based course for @rst year mechanics\$electric and gra0itationa</td><td></td><td>Ryerson Uni0ersity " semester</td></tr><tr><td>> 8</td><td>Physics """D""& ; =undamentals of Gechanics\$thermodynamics\$@uid and magnetism\$optics\$4a0es\$mod Algebra based course for life scienc</td><td>dynamics\$electricity ern physics.</td><td>Colgate Uni0ersity & semesters >eachA</td></tr><tr><td>></td><td>PCS&"" / Physics) Gechanics Calculus based mechanics for @rstengineering students. <mphasis on statics and dynamicsA</td><td>year</td><td>Ryerson Uni0ersity : semesters</td></tr><tr><td>></td><td>PCS"&E / F a0es and =ields Calculus based 1scillations\$F a0es for @rst year engineering students.</td><td>\$<lectromagnetism</td><td>Ryerson Uni0ersity & semesters</td></tr><tr><td></td><td>Physics "!"; Atoms and F a0es Introductory course on &#th centur</td><td></td><td>Colgate Uni0ersity " semester</td></tr><tr><td>></td><td>PCS&&: / Solid State Physics =or second year electrical engineer <lectrostatics\$statistical physics\$p; de0ices\$61S=<TA</td><td>ring students.</td><td>Ryerson Uni0ersity E semesters</td></tr><tr><td></td><td>PCS!!E/Thermal and Statistical Pl</td><td>•</td><td>Ryerson Uni0ersity</td></tr></tbody></table>

: semesters

>Course for third year physics ma?ors.
' a4s of thermodynamics\$engines\$Guantum statistical physicsA

Curriculum Vitae Todd Springer Page 2 of 6

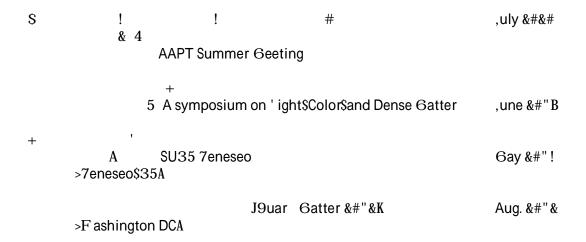
Physics &#&D&#! D&#: ; Gathematical Gethods for Physics Colgate Uni0ersity >CompleC Oariables\$=ourier analysis\$differential eGuationsA & semesters PCSE&"DPCS(&&; Gathematical Physics Ryerson Uni0ersity >&nd year course for physics ma?ors. & semesters >eachA Differential eGuations in physical systems\$compleC Oariables\$numerical methods\$6AT' A. \$=ourier analysisA Physics: E(; 7eneral Relati0ity and Cosmology Colgate Uni0ersity >: th year course for physics ma?ors " semester SpecialDgeneral relati0ity and cosmological applicationsA \*& Physics (B! \* 9uantum @eld theory II 6c7ill Uni0ersity >non;Abelian gauge theories\$Guantum chromodynamics\$ H semester deep inelastic scattering and parton e0olutionA & 4 1 Physics """D""&; =undamentals of Physics I and II Colgate Uni0ersity & semesters Physics "!"; Atoms and Fa0es Colgate Uni0ersity ! semesters Physics "!#"D"!#&; Physics for scientists and engineers Uni0ersity of 6innesota >6echanics ànI\$!z!i@6eath\$pes\$iapplicationsA

4

2 ' >?>; 3
Citations) "+"
h;IndeC) %
i"# IndeC) B

& 4 1

arMi0)"E#%.#&: #+\$&#"E\$>4ith ,. AngNongNaOA



\$

!

- Gentored Anna 'ec man >T' +A in a " credit course on introductory cosmology and relatioity at Ryerson Unioersity
- Senior capstone pro?ects >Colgate Uni0ersityA
  - o ,ac son AngNongNa >N' EASJThermodynamics of the 2adron 7as Phase of the <arly Uni0erseK
  - Ar?un . huptani >N' (A\$JThe <ffect of Riscosity on the <Cpansion of the Uni0erse.K
  - o 7ary 6ucci\$>N' (AJSignatures of Thermal = luctuations in the Cosmic 6icro4a0e