

AN INTRODUCTION TO THE SPLIT STEP FOURIER METHOD USING MATLAB

AN INTRODUCTION TO THE SPLIT STEP FOURIER METHOD USING MATLAB AN TO THE SPLITSTEP FOURIER METHOD USING MATLAB THE SPLITSTEP FOURIER METHOD SSFM IS A POWERFUL NUMERICAL TECHNIQUE USED TO SOLVE PARTIAL DIFFERENTIAL EQUATIONS PDES PARTICULARLY THOSE ARISING IN NONLINEAR OPTICS AND QUANTUM MECHANICS ITS EFFICIENCY AND RELATIVE SIMPLICITY MAKE IT A POPULAR CHOICE FOR SIMULATING WAVE PROPAGATION IN VARIOUS MEDIA THIS ARTICLE PROVIDES A COMPREHENSIVE INTRODUCTION TO THE SSFM FOCUSING ON ITS IMPLEMENTATION IN MATLAB ALONG WITH PRACTICAL ADVICE AND REALWORLD APPLICATIONS UNDERSTANDING THE FUNDAMENTALS THE SSFM IS BASED ON THE IDEA OF SPLITTING THE EVOLUTION OPERATOR OF A PDE INTO LINEAR AND NONLINEAR PARTS THIS ALLOWS FOR THE SEPARATE TREATMENT OF THESE COMPONENTS LEVERAGING THE EFFICIENCY OF THE FAST FOURIER TRANSFORM FFT FOR THE LINEAR PART CONSIDER A GENERAL NONLINEAR SCHRINGER EQUATION NLSE A COMMON APPLICATION OF THE SSFM $i \psi_z + \frac{1}{2} \Delta \psi + g |\psi|^2 \psi = 0$ WHERE ψ REPRESENTS THE WAVE FUNCTION z IS THE PROPAGATION DISTANCE t IS TIME OR A SPATIAL VARIABLE AND g IS A NONLINEAR COEFFICIENT THE SSFM DECOMPOSES THIS EQUATION INTO TWO STEPS 1 LINEAR STEP SOLVES THE LINEAR PART USING THE FFT $i \psi_z + \frac{1}{2} \Delta \psi = 0$ THIS STEP IS EFFICIENTLY HANDLED IN THE FOURIER DOMAIN WHERE THE SECONDORDER DERIVATIVE BECOMES A SIMPLE MULTIPLICATION 2 NONLINEAR STEP SOLVES THE NONLINEAR PART DIRECTLY IN THE TIME OR SPATIAL DOMAIN $i \psi_z + g |\psi|^2 \psi = 0$ THIS STEP INVOLVES A STRAIGHTFORWARD MULTIPLICATION THESE TWO STEPS ARE ITERATIVELY APPLIED OVER SMALL PROPAGATION STEPS z EFFECTIVELY APPROXIMATING THE SOLUTION OF THE FULL NLSE THE ACCURACY OF THE METHOD DEPENDS ON THE SIZE OF z SMALLER STEPS GENERALLY LEAD TO MORE ACCURATE RESULTS BUT INCREASE COMPUTATIONAL COST STUDIES HAVE SHOWN THAT THE SSFM CONVERGES TO THE EXACT SOLUTION WITH A RATE PROPORTIONAL TO z FOR MANY PROBLEMS REFERENCE AGRAWAL NONLINEAR FIBER OPTICS IMPLEMENTING THE SSFM IN MATLAB MATLABS BUILTIN FUNCTIONS MAKE IMPLEMENTING THE SSFM RELATIVELY STRAIGHTFORWARD THE FOLLOWING CODE SNIPPET DEMONSTRATES A BASIC IMPLEMENTATION FOR SOLVING THE NLSE

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matlab PARAMETERS dz=0.01 PROPAGATION STEP zspan=0:10 PROPAGATION RANGE t=linspace(0,10,1024) TIME GRID g=1 NONLINEAR COEFFICIENT INITIAL CONDITION psi0=sech(x) PROPAGATION LOOP z=zspan(1) psi=psi0 while z<zspan(2) LINEAR STEP FOURIER DOMAIN psi_hat=fft(psi) psi_hat=psi_hat*exp(i*dz*(k^2)/2) k IS THE WAVENUMBER psi=ifft(psi_hat) NONLINEAR STEP TIME DOMAIN psi=psi*exp(i*g*dz*abs(psi)^2) UPDATE PROPAGATION DISTANCE z=z+dz END PLOT THE RESULTS plot(z,abs(psi)^2)
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3 THIS CODE UTILIZES THE FFT AND IFFT FUNCTIONS FOR EFFICIENT FOURIER TRANSFORMS CRUCIALLY APPROPRIATE BOUNDARY CONDITIONS MUST BE CONSIDERED AND INCORPORATED DEPENDING ON THE SPECIFIC PROBLEM REALWORLD APPLICATIONS AND EXPERT INSIGHTS THE SSFM FINDS WIDESPREAD APPLICATIONS IN DIVERSE FIELDS IN FIBER OPTICS ITS USED TO SIMULATE PULSE PROPAGATION IN OPTICAL FIBERS PREDICTING PHENOMENA LIKE SOLITON FORMATION AND SUPERCONTINUUM GENERATION PROFESSOR GOVIND AGRAWAL A LEADING EXPERT IN NONLINEAR OPTICS HIGHLIGHTS THE SSFMS IMPORTANCE IN DESIGNING NEXTGENERATION OPTICAL COMMUNICATION SYSTEMS REFERENCE AGRAWALS NUMEROUS PUBLICATIONS ON NONLINEAR FIBER OPTICS IN QUANTUM MECHANICS ITS EMPLOYED TO MODEL THE EVOLUTION OF WAVE PACKETS IN VARIOUS POTENTIALS FURTHERMORE THE SSFM IS APPLIED IN HYDRODYNAMICS FOR SIMULATING WAVE PROPAGATION IN SHALLOW WATER IMPROVING ACCURACY AND EFFICIENCY SEVERAL TECHNIQUES CAN ENHANCE THE ACCURACY AND EFFICIENCY OF THE SSFM HIGHERORDER SPLITTING SCHEMES INSTEAD OF SIMPLE SPLITTING EMPLOYING MORE SOPHISTICATED SPLITTING SCHEMES EG SYMMETRIC SPLITTING HIGHERORDER SPLITTING CAN SIGNIFICANTLY REDUCE NUMERICAL ERRORS ADAPTIVE STEP SIZE ADJUSTING THE PROPAGATION STEP SIZE z BASED ON THE SOLUTIONS CHARACTERISTICS CAN OPTIMIZE THE BALANCE BETWEEN ACCURACY AND COMPUTATIONAL COST OPERATOR SPLITTING METHODS EXPLORING DIFFERENT SPLITTING METHODS THAT BETTER SEPARATE THE LINEAR AND NONLINEAR PARTS SUMMARY THE SPLITSTEP FOURIER METHOD OFFERS A VERSATILE AND EFFICIENT APPROACH TO SOLVING NONLINEAR PDES ITS IMPLEMENTATION IN MATLAB LEVERAGES THE POWER OF THE FFT ENABLING EFFICIENT SIMULATION OF WAVE PROPAGATION IN VARIOUS CONTEXTS UNDERSTANDING THE FUNDAMENTALS INCORPORATING OPTIMIZED TECHNIQUES AND CONSIDERING THE SPECIFIC APPLICATIONS REQUIREMENTS ARE CRUCIAL FOR SUCCESSFUL SSFM IMPLEMENTATION THE METHODS WIDESPREAD APPLICATION ACROSS FIELDS LIKE OPTICS AND QUANTUM MECHANICS UNDERSCORES ITS SIGNIFICANCE IN SCIENTIFIC COMPUTING FREQUENTLY ASKED QUESTIONS FAQs Q1 WHAT ARE THE LIMITATIONS OF THE SSFM A1 WHILE EFFICIENT THE SSFM HAS LIMITATIONS ITS ACCURACY DEPENDS ON THE SIZE OF THE PROPAGATION STEP z VERY SMALL STEPS ARE COMPUTATIONALLY EXPENSIVE AND VERY LARGE STEPS CAN LEAD TO SIGNIFICANT ERRORS FURTHERMORE THE METHOD MIGHT STRUGGLE WITH HIGHLY NONLINEAR SYSTEMS OR THOSE INVOLVING RAPID CHANGES IN THE SOLUTION Q2 HOW DO I CHOOSE THE OPTIMAL PROPAGATION STEP SIZE z A2 THE OPTIMAL z DEPENDS ON THE SPECIFIC PROBLEM AND DESIRED ACCURACY A GOOD STARTING POINT IS TO PERFORM CONVERGENCE TESTS GRADUALLY REDUCING z AND OBSERVING THE CHANGE IN THE SOLUTION IF THE SOLUTION DOESNT CHANGE SIGNIFICANTLY THE CURRENT z IS LIKELY SUFFICIENT Q3 CAN THE SSFM HANDLE HIGHERORDER NONLINEAR TERMS A3 YES BUT THE NONLINEAR STEP BECOMES MORE COMPLEX FOR HIGHERORDER NONLINEARITIES THE DIRECT NUMERICAL SOLUTION OF THE NONLINEAR PART NEEDS APPROPRIATE

ADJUSTMENTS TO ACCOUNT FOR THESE ADDITIONAL TERMS Q4 WHAT ARE THE ALTERNATIVE METHODS FOR SOLVING NLSes A4 ALTERNATIVE METHODS INCLUDE FINITE DIFFERENCE METHODS FINITE ELEMENT METHODS AND SPECTRAL METHODS EACH METHOD HAS ITS STRENGTHS AND WEAKNESSES AND THE CHOICE DEPENDS ON THE SPECIFIC PROBLEM AND COMPUTATIONAL RESOURCES Q5 HOW CAN I IMPROVE THE ACCURACY OF MY SSFM IMPLEMENTATION A5 EMPLOYING HIGHERORDER SPLITTING SCHEMES ADAPTIVE STEP SIZE CONTROL AND CAREFULLY SELECTING THE SPATIAL AND TEMPORAL GRIDS CAN SIGNIFICANTLY IMPROVE ACCURACY COMPARING RESULTS WITH ANALYTICAL SOLUTIONS OR OTHER NUMERICAL METHODS CAN ALSO HELP ASSESS THE ACCURACY OF YOUR IMPLEMENTATION

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25 JUN 2021 AM SAMSTAG ER[?] FFEN UNSERE ROTEN MIT DEM DUELL GEGEN DEN FC ST PAULI DEN TESTSPIEL REIGEN DER DIESJ[?] HRIGEN SOMMERVORBEREITUNG ANPFIFF IST UM 15 UHR IN DER HDI ARENA

8 JAN 2024 AM DIENSTAG STEHT MIT DEM DUELL GEGEN DEN FC Z[?] RICH DER DRITTE UND LETZTE TRAININGSLAGER TEST AN WIE 96 CHEFTRAINER STEFAN LEITL F[?] R DAS SPIEL PLANT UND WIE IHR DIE PARTIE VERFOLGEN K[?] NNT

11 OCT 2023 DIE 2 LIGA PAUSIERT ZWAR AM WOCHENENDE DOCH DIE 96 PROFIS SIND DENNOCH IM EINSATZ AM DONNERSTAG GASTIEREN SIE UM 13 30 UHR BEIM VFL BOCHUM 96 CHEFTRAINER STEFAN LEITL ERWARTET

9 JAN 2023 W[?] HREND DES TRAININGSLAGERS IN BELEK BESTREITET 96 DREI TESTSPIELE NUMMER EINS STEIGT AM DIENSTAGNACHMITTAG UM 15 30 UHR ORTSZEIT 13 30 UHR MEZ GEHT ES GEGEN DEN SCHWEIZER

26 JUL 2024 BEVOR HANNOVER 96 AM 3 AUGUST GEGEN AUFSTEIGER JAHN REGENSBURG IN DIE NEUE ZWEITLIGASAIISON STARTET STEHT NOCH EIN LETZTES TESTSPIEL AN AM SAMSTAG ANPFIFF 15 30 UHR

19 JUL 2024 EINEN TAG VOR DER ABREISE AUS DEM TRAININGSLAGER IN [?] STERREICH BESTREITET DAS 96 TEAM EIN TESTSPIEL GEGEN DEN NIEDERL[?] NDISCHEN ERSTLIGISTEN FC TWENTE ENSCHEDE WIR ZEIGEN EUCH DIE

5 JAN 2025 AM MONTAG STEHT MIT DER PARTIE GEGEN DRITTLIGIST WALDHOF MANNHEIM DER ERSTE TRAININGSLAGER TEST AUF DEM PROGRAMM WIE ANDR[?] BREITENREITER DAS SPIEL DAS IHR IM KOMMENTIERTEN

18 JUL 2025 ZUM ABSCHLUSS DES TRAININGSLAGERS TRIFFT HANNOVER 96 AM SAMSTAG IM RAHMEN EINES DOPPELTESTS AUF DEN SC PADERBORN GESPIELT WIRD [?] BER ZWEIMAL 90 MINUTEN WAS 96 CHEFTRAINER

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